BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 20000000.00

Name of Work: Detailed Estimate for the work of Construction of RCC drain at Srinivaspura main and cross roads ward no -01 of yelahanka Sub division.

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	**KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means** including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 Page No.143. Item No.19.14	cum							
	for Asphalt road								
	Srinivasapura 1st main Road		1	130.00	4.50	0.30	175.50		
	Srinivasapura 2nd main Road		1	60.00	7.00	0.30	126.00		
						Total	**301.50**		
	Basic Rate	41.00						125.59	37865
	Area Weightage 6%	2.46							
	Grand Total	**43.46**							
	Loading and unloading + Basic Rate for Haulage upto 8.00 k.m =(1.28 X 2.50 X 8)+ 57	77.48							
	Area Weightage 6%	4.65							
		125.59							
	KSRB 2-2.1 : **Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical** conduits etc, either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. No. KBS 2.1 (a) I 2.3.5 page no 6	cum							
2	**for RCC drain**								
	Srinivasapura 1st main Road		1	130.00	1.00	1.00	130.00		
			1	30.00	1.00	1.00	30.00		
			1	46.00	1.00	1.00	46.00		
			1	14.00	1.00	1.00	14.00		
			2	26.00	1.00	1.00	52.00		
	for culvert		2	60.00	1.00	1.00	120.00		
			3	7.00	1.65	1.20	41.58		
							433.58		

	Basic Rate	299.00						399.07	173028.00
	Area Weightage 6%	17.94							
	Grand Total	316.94							
	Loading and unloading + Basic Rate for Haulage upto 8.00 k.m =(1.28 X 2.50 X 8)+ 57	77.48							
	Area Weightage 6%	4.65							
		399.07							
	KSRB 4-1.7 : **Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum** and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 Page No.13 Item No.4.7	cum							
3	**PCC Drain**								
	Srinivasapura 1st main Road		1	130.00	1.00	0.15	19.50		
			1	30.00	1.00	0.15	4.50		
			1	46.00	1.00	0.15	6.90		
			1	14.00	1.00	0.15	2.10		
			2	26.00	1.00	0.15	7.80		
			2	60.00	1.00	0.15	18.00		
	for culvert		3	7.00	1.50	0.15	4.73		
	PCC For Kerb								
	Srinivasapura 1st main Road		1	130.00	0.17	0.10	2.21		
						Total	**65.74**		
	Basic Rate	5309.00						5627.54	369926.00
	Area Weightage 6%	318.54							
	Grand Total	5627.54							
	Providing **and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs.** with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications. Page No.270, Item No.37.59.1	cum							
4	**for bed**								
	Srinivasapura 1st main Road		1	130.00	0.90	0.15	17.55		
			1	30.00	0.90	0.15	4.05		
			1	46.00	0.90	0.15	6.21		
			1	14.00	0.90	0.15	1.89		
			2	26.00	0.90	0.15	7.02		

			2	60.00	0.90	0.15	16.20		
	for culvert		3	7.00	1.20	0.25	6.30		
	Side walls							6.30	
	Srinivasapura 1st main Road		2	130.00	0.15	0.75	29.25		
			2	30.00	0.15	0.75	6.75		
			2	46.00	0.15	0.75	10.35		
			2	14.00	0.15	0.75	3.15		
			4	26.00	0.15	0.75	11.70		
			4	60.00	0.15	0.75	27.00		
	for culvert		6	7.00	0.23	0.90	8.69		
							156.11	8.69	
	Basic Rate	6862.00						7273.72	1135530.00
	Area Weightage 6%	411.72							
	Grand Total	7273.72							
	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 (PGNo.229 INO.28.8)	Tn							
5	for RCC drain 60 kg/cum		0.060	141.12			8.47		
	for culvert 90 kg/cum		0.090	14.99			1.35		
				156.11			9.82		
	Basic Rate	68233.00						72326.98	710009.00
	Area Weightage 6%	4093.98							
	Grand Total	72327.0							
	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting , including form work, cost of alll materials, labour,hire charges of chinery,loading ,unloading ,lead and lift, transportation etc coomplete (Data Rate)	Sqm							
6	Srinivasapura 1st main Road		1	130.00	0.90		117.00		
			1	30.00	0.90		27.00		
			1	46.00	0.90		41.40		
			1	14.00	0.90		12.60		
			2	26.00	0.90		46.80		
			2	60.00	0.90		108.00		
	Data Rate	2337.00					352.80		
								2337.00	824494.00

	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)	**Sqm**							
7	**for culverts**								
	for culvert		3	7.00	1.20		25.20		
							25.20		
	Date Rate	**5418.00**						**5418.00**	**136534.00**
	KSRRB M300-53. Constuction of embankment with approved material Gravel/ Murrum with all lifts and leads, trasporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specfications, including cost of gravel/ murrum, watering charges & compaction by vibraatory roller to 95% of modified proctors desnsity. MORTH Specfications No.305 Page No- 147.. I. No- 19.60	**cum**							
8	Hemanna temple road		1	180.00	7.00	0.30	378.00		
	Hemanna temple 1st cr road		1	50.00	5.00	0.30	75.00		
	Hemanna temple 2nd cr road		1	50.00	5.00	0.30	75.00		
	Hemanna temple 3rd cr road		1	50.00	5.00	0.30	75.00		
							603.00		
	Basic Rate	325.00							
	Area Weightage 6%	19.50						**344.50**	**207734**
	Grand Total	344.50							
	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method byrotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. Page No.153. Item No.20.6	**cum**							
9	Srinivasapura 1st main Road		1	130.00	4.50	0.15	87.75		
	Hemanna temple road		1	180.00	7.00	0.15	189.00		
	Srinivasapura 2nd main Road		1	60.00	7.00	0.15	63.00		
	Srinivasapura 1st main1st cr Road		1	300.00	7.00	0.15	315.00		
							654.75		
	Basic Rate	1750.00							
	Area Weightage 6%	105.00						**1855.00**	**1214561**
	Grand Total	**1855.00**							

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	KSRRB M400-17. **Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406. Page No. 155. Item No.20.18	**cum**							
10	Srinivasapura 1st main Road		1	130.00	4.50	0.15	87.75		
	Hemanna temple road		1	180.00	7.00	0.15	189.00		
	Srinivasapura 2nd main Road		1	60.00	7.00	0.15	63.00		
	Srinivasapura 1st main1st cr Road		1	300.00	7.00	0.15	315.00		
							654.75		
	Basic Rate	1888.00						**2001.28**	**1310338**
	Area Weightage 6%	113.28							
	Grand Total	2001.28							
	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)	**sqm**							
11	Srinivasapura 1st main Road		1	130.00	4.50		585.00		
	Hemanna temple road		1	180.00	7.00		1260.00		
	Srinivasapura 2nd main Road		1	60.00	7.00		420.00		
	Srinivasapura 1st main1st cr Road		1	300.00	7.00		2100.00		
							2265.00		
	Basic Rate	32.00						**33.92**	**76829**
	Area Weightage 6%	1.92							
	Grand Total	**33.92**							

	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50 mm to 75mm) with 4.5% VG-30 Bitumen. Page No.160. Item No.21.17.2	**Cum**							
12	Srinivasapura 1st main Road		1	130.00	4.50	0.05	29.25		
	Hemanna temple road		1	180.00	7.00	0.05	63.00		
	Srinivasapura 2nd main Road		1	60.00	7.00	0.05	21.00		
	Srinivasapura 1st main1st cr Road		1	300.00	7.00	0.05	105.00		
							218.25		
	Basic Rate	7189.00						**7620.34**	**1663139.00**
	Area Weightage 6%	431.34							
	Grand Total	**7620.34**							
	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 0.25 kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 Page No.158. Item No.21.7	**Sqm**							
13	Srinivasapura 1st main Road		1	130.00	4.50		585.00		
	Hemanna temple road		1	180.00	7.00		1260.00		
	Srinivasapura 2nd main Road		1	60.00	7.00		420.00		
	Srinivasapura 1st main1st cr Road		1	300.00	7.00		2100.00		
							4365.00		
	Basic Rate	12.00						**12.72**	**55523.00**
	Area Weightage 6%	0.72							
	Grand Total	**12.72**							

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	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% ofVG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) Page No. 171. Item No.21.78.12	**Cum**							
14	Srinivasapura 1st main Road		1	130.00	4.50	0.04	23.40		
	Hemanna temple road		1	180.00	7.00	0.04	50.40		
	Srinivasapura 2nd main Road		1	60.00	7.00	0.04	16.80		
	Srinivasapura 1st main1st cr Road		1	300.00	7.00	0.04	84.00		
							174.60		
	Basic Rate	8207.00						8699.42	1518919.00
	Area Weightage 6%	492.42							
	Grand Total	8699.42							
	Providing and fixing of retro - reflectorised cautionary, mandatory and informatory sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 em x 45 cm x 60 em, 60 cm below ground level as per approved drawing Page No.180. Item No.24.2	**Nos**							
15	Srinivasapura 1st main Road		2	65.00			130.00		
	Hemanna temple road		2	90.00			180.00		
	Srinivasapura 2nd main Road		2	30.00			60.00		
	Srinivasapura 1st main1st cr Road		2	150.00			300.00		
	Basic Rate	130.00				**Total**	**670.00**		
	Area Weightage 6%	7.80						137.80	92326
	Grand Total	**137.80**							

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	KSRRB M600-1: Construction of dry lean cement concrete mix CC 1:5:10 with OPC cement @180Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 180 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No. 601 of MORTH V Revision and IS 456 Table-5 22.1.1 -do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with Slip form paver with electronic sensor Page No.174. Item No.22.1.1	Cum							
16	Hemanna temple 1st cr road		1	50.00	5.00	0.15	37.50		
	Hemanna temple 2nd cr road		1	50.00	5.00	0.15	37.50		
	Hemanna temple 3rd cr road		1	50.00	5.00	0.15	37.50		
	Srinivasapura 2nd main to Hemanna temple road (road cutting portions for CC road)		1	300	1.20	0.15	54.00		
							166.50		
	Basic Rate	3585.00						3800.10	632717
	Area Weightage 6%	215.10							
	Grand Total	3800.10							
	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to 18:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. Page No.176. Item No.22.6.1	Cum							
17	Hemanna temple 1st cr road		1	50.00	5.00	0.15	37.50		
	Hemanna temple 2nd cr road		1	50.00	5.00	0.15	37.50		
	Hemanna temple 3rd cr road		1	50.00	5.00	0.15	37.50		

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	Srinivasapura 2nd main to Hemanna temple road (road cutting portions for CC road)		1	300.00	1.20	0.15	54.00		
							166.50		
	Basic Rate	4916.00						5210.96	867625
	Area Weightage 6%	294.96							
	Grand Total	5210.96							
	KSRRB M800-4. Direction and Place Identification Signs / Project Information Board with size more than 0.9 sqm Size Board:- Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm , 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 em, 60 em below ground level as per approved drawing. Page No.180. Item No.24.4	Nos							
18	Srinivasapura main Road		1				1.00		
	Srinivasapura 2nd main to Hemanna temple road		1				1.00		
	Hemanna Temple road		1				1.00		
							3.00		
	Basic Rate	7139.00						7567.34	22702.00
	Area Weightage 6%	428.34							
	Grand Total	7567.34							
	KSRRB M800-13. Road Marking with Hot Applied *Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 Page No.182. Item No.24.15	Sqm							
19	Srinivasapura 1st main Road		1	86.67	0.10		8.67		
	Hemanna temple road		2	130.00	0.15		39.00		
			1	120.00	0.10		12.00		
	Srinivasapura 2nd main Road		2	180.00	0.15		54.00		
			1	40.00	0.10		4.00		
	Srinivasapura 1st main1st cr Road		2	60.00	0.15		18.00		
			1	200.00	0.10		20.00		
			2	300.00	0.15		90.00		
							245.67		

	Basic Rate	429.00						454.74	111714.00
	Area Weightage 6%	25.74							
	Grand Total	454.74							
	BOX culvert								
	KSRRB M2100-1.1. Earth Work excavation in all kinds of soils for foundation of structures as per drawing and technical specification, inculding setting out, providing shoring and bracing,removal of stumps and other deleterious matter, dressing of sides and bottom and filling complete as per specification. Morth specification No.304 (KSRRB M2100-1.1-do-.i) 0m to 3 m depth by manual means (Pg No.220 INo.27.1)	cum							
20	**BOX Culvert**								
	Box LHS	LHS	1.00	3.85	9.10	0.55	19.27		
	Shear Key	LHS	1.00	8.90	0.70	0.80	4.98		
	Retaining Wall	LHS	2.00	3.21	3.70	1.50	35.63		
	Rigid Apron	LHS	1.00	8.20	3.21	0.45	11.84		
		LHS	-2.00	8.09	Sqm	0.45	-7.28		
	Flexible Apron	LHS	1.00	8.20	6.00	0.75	36.90		
	Curtain Wall	LHS	1.00	8.20	1.85	2.20	33.37		
	Box RHS	RHS	1.00	3.85	9.10	0.55	19.27		
	Shear Key	RHS	1.00	8.90	0.70	0.80	4.98		
	Retaining Wall	RHS	2.00	3.21	3.70	1.50	35.63		
	Rigid Apron	RHS	1.00	8.20	3.21	0.45	11.84		
		RHS	-2.00	8.09	Sqm	0.45	-7.28		
	Flexible Apron	RHS	1.00	8.20	3.00	0.75	18.45		
	Curtain Wall	RHS	1.00	8.20	1.85	2.20	33.37		
	Total Quantity						250.99		
								206.70	51879
	Basic Rate	195.00							
	Area Weightage 6%	11.70							
	Grand Total	206.70							
	KSRRB M2100-10.Providing and laying plain cement concrete of mix 1:3:6 with OPC @ 220kgs,with crushed 40mm and down size graded granite metal coarse aggregates @ 0.89cum and fine aggregates @0.46cum, in foundation mechanicaliy mixed , Placed in foundation and compacted by vibrastion inculding curing for 14 days inculding of all metarials , labour, HOM curring,form works, Scaffolding and centering complete as per specifications. MORTH Specifications No.2100 (Pg.222 INo.27.18)	cum							
21	**BOX Culvert**								
	Box LHS	LHS	1	2.85	2.40	0.10	0.684		
	Shear Key	LHS	1	2.20	0.33	0.10	0.073		

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	Retaining Wall	LHS	2	1.75	3.20	0.10	1.120		
	Rigid Apron	LHS	1	0.00	0.00	0.15	0.000		
		LHS	-1	3.30	Sqm	0.15	-0.495		
	Flexible Apron	LHS	1	7	6.00	0	0.000		
	Curtain Wall	LHS	1	7	1.65	0.10	1.155		
	Box RHS	RHS	1	2.85	3.40	0.10	0.969		
	Shear Key	RHS	1	3.20	0.33	0.10	0.106		
	Retaining Wall	RHS	2	1.75	3.20	0.10	1.120		
	Rigid Apron	RHS	1	0.00	0.00	0.15	0.000		
		RHS	-1	2.26	Sqm	0.15	-0.339		
	Flexible Apron	RHS	1	6.1	3.00	0	0.000		
	Curtain Wall	RHS	1	6.1	1.4	0.10	0.854		
	Total Quantity						**5.246**		
								5421.900	**28445**
	Basic Rate	5115.00							
	Area Weightage 6%	306.90							
	Grand Total	**5421.90**							
	KSRRB M2100-7.Back filling the								
22	**Backfilling Behind Wall / Box**								
	Box LHS		2	3.90	0.26		2.05		
	Retaining Wall LHS		2	1.99	0.08		0.32		
	Box RHS		2	3.90	0.26		2.05		
	Retaining Wall RHS		2	1.99	0.12		0.48		
	Total Quantity	**Cum**					**4.90**		
	Basic Rate	349.00						**369.94**	**1811.753**
	Area Weightage 6%	20.94							
	Grand Total	**369.94**							
	KSRRB M2200-9. Providing and laying of filter media with granular materials / stone crushed aggregates satisying the requirements laid down in clause 2504.2.2 of MORTH specifications to thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condistion materials, labour , HOM com[plete as per specifications. MORTH Spectication No. 2504,2,2								
23	**Filter Media Behind Wall**								
	Box LHS	LHS							
	Retaining Wall LHS	LHS	2	2.375	1.45	0.6	4.133		
			2	1.33142	0.95	0.6	1.518		
	Box RHS	RHS							
	Retaining Wall RHS	RHS	2	2.375	1.45	0.6	4.133		
			2	1.33142	0.95	0.6	1.518		
	Total Quantity	**Cum**					**11.301**		
	Basic Rate	2091.00						**2216.46**	**25047.417**
	Area Weightage 6%	125.46							
	Grand Total	**2216.46**							

	KSRRB M2100-10.Providing and laying plain cement concrete of mix 1:3:6 with OPC @ 220kgs,with crushed 40mm and down size graded granite metal coarse aggregates @ 0.89cum and fine aggregates @0.46cum, in foundation mechanicaliy mixed , Placed in foundation and compacted by vibrastion inculding curing for 14 days inculding of all metarials , labour, HOM curring,form works, Scaffolding and centering complete as per specifications. MORTH Specifications No.2100 (Pg.222 INo.27.18)								
24	**Providing CC for Wall**								
	Curtain Wall LHS	LHS	1	7	1.45	0.55	5.583		
		LHS	1	7	0.75	0.75	3.938		
		LHS	1	7	1.45	0.55	5.583		
		LHS	1	7	0.75	0.75	3.938		
	Curtain Wall RHS	RHS	1	6.1	1.20	0.80	5.856		
		RHS	1	6.1	0.45	0.45	1.235		
		RHS	1	6.1	1.20	0.45	3.294		
		RHS	1	6.1	0.45	0.20	0.549		
	Total Quantity						**29.974**		
								5421.90	**162517.386**
	Basic Rate	5115.00							
	Area Weightage 6%	306.90							
	Grand Total	**5421.90**							
	KSRRB M2100-19.2. Providing and laying Plain/ Reinforced cement Concrete in open Foundation with OPC design mix M30 @ 360kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69cum and fine aggregates @ 0.46cum, with superplastizer @ 3 lts confirming to IS9103-1999 reaffirmed-2008 complete as per Drwaing ans Techinxal Specifications inculding cost of all materials, labour, HOM curing, from works, scaffolding and centering as per specifications. MORTH Specification No. 1500, 1700 & 2100 (Pgno.223 INO.27.35)								
25	**M30 Concrete for Raft**								
	Box Raft	LHS	1	2.75	2.20	0.40	2.420		
	Shear Key	LHS	1	2.20	0.7	0.80	1.232		
							0.000		
	Box Raft	RHS	1	2.75	3.20	0.40	3.520		

	Shear Key	RHS	1	3.20	0.7	0.80	1.792		
	Total Quantity						**8.964**		
	M30 for Retaining Wall								
	Raft	LHS	2	1.75	3.00	0.20	2.100		
			2	1.75	1.73	0.55	3.321		
	Raft	RHS	2	1.75	3.00	0.20	2.100		
			2	1.75	1.73	0.55	3.321		
	Total Quantity		Cum				**10.841**		
						Gr-Total	19.805		
	Basic Rate	5084.00						**5389.04**	**106731.284**
	Area Weightage 6%	305.04							
	Grand Total	**5389.04**							
	HYSD FE 500 for Foundation								
	For Box			100	kg / cum	8.964	0.090		
	For Retaining Wall			100	kg / cum	10.841	0.108		
	Total Quantity	**MT**					**0.20**		
	Basic Rate	68233.00						**72326.98**	**14324.539**
	Area Weightage 6%	4093.98							
	Grand Total	**72326.98**							
	KSRRB M2100-19.2. Providing and laying Plain/ Reinforced cement Concrete in open Foundation with OPC design mix M30 @ 360kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69cum and fine aggregates @ 0.46cum, with superplastizer @ 3 lts confirming to IS9103-1999 reaffirmed-2008 complete as per Drwaing ans Techinxal Specifications inculding cost of all materials, labour, HOM curing, from works, scaffolding and centering as per specifications. MORTH Specification No. 1500, 1700 & 2100 (Pgno.223 INO.27.35)								
26	**M 30 for Substructure Wall**								
	For Box	LHS	2	2.75	0.35	1.20	2.310		
	Intermediate Wall	LHS	0	2.75	0.00	1.20	0.000		
	For Box	RHS	2	2.75	0.35	1.20	2.310		
	Intermediate Wall	RHS	0	2.75	0.00	1.20	0.000		
	Haunch	LHS	4	2.75	0.15	0.075	0.124		
		RHS	4	2.75	0.15	0.075	0.124		
	Bracket for Approach Slab								
		LHS	2	2.45	0.135	Sqm	0.662		
		RHS	2	2.45	0.135	Sqm	0.662		
	Total Quantity								
							6.191		

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	M30 for Retaining Wall								
	Wall		2	1.75	0.38	2.00	2.625		
	Wall		2	1.75	0.38	2.00	2.625		
	Total Quantity	Cum					5.250		
						Gr-Total	11.441		
	Basic Rate	5084.00						5389.04	61653.31
	Area Weightage 6%	305.04							
	Grand Total	**5389.04**							
	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 (PGNo.229 INO.28.8)								
27	**HYSD FE 500 for Sub Structure**								
	For Box			100	kg / cum	6.191	0.062		
	For Retaining Wall			100	kg / cum	5.250	0.525		
	Total Quantity	MT					0.587		
	Basic Rate	68233.00						72326.98	42449.066
	Area Weightage 6%	4093.98							
	Grand Total	**72326.98**							
	KSRRB M2100-19.2. Providing and laying Plain/ Reinforced cement Concrete in open Foundation with OPC design mix M30 @ 360kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69cum and fine aggregates @ 0.46cum, with superplastizer @ 3 lts confirming to IS9103-1999 reaffirmed-2008 complete as per Drwaing ans Techinxal Specifications inculding cost of all materials, labour, HOM curing, from works, scaffolding and centering as per specifications. MORTH Specification No. 1500, 1700 & 2100 (Pgno.223 INO.27.35)								
28	**M30 for Superstructure**								
	Box								
		LHS	1	2.75	2.20	0.30	1.815		

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	Box	RHS	1	2.75	3.20	0.30	2.640		
	Total Quantity						4.455		
	Basic Rate	5084.00						5389.04	24008.173
	Area Weightage 6%	305.04							
	Grand Total	**5389.04**							
	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 (PGNo.229 INO.28.8)								
29	**HYSD FE 500 for Superstructure**								
	For Box			125	kg / cum	4.455	0.036		
	Total Quantity	**MT**					**0.036**		
	Basic Rate	68233.00						72326.98	2577.734
	Area Weightage 6%	4093.98							
	Grand Total	**72326.98**							
	KSRRB M2200-8. Providing weep holes in brick masonry / Plain / Reinforced concrete abutment, wing wall / return wall with 100mm dia AC pipe, extending through the full width of the structure with slope of 1V: 20H towards drawing force.Complete as per drawing and tecgnical specifications including cost of materials, labour,HOM complete as per specifications. MORTH specification No.2706 & 2200 (Pg No.229 INo.28.10)								
30	**Providing Weep Hole**								
	Box Culvert		5				5		
	Box Culvert		5				5		
	Retaining Wall		6				6		
	Retaining Wall		6				6		
	Total Quantity	**Nos**					**22**		
	Basic Rate	147.00						155.82	3428
	Area Weightage 6%	8.82							
	Grand Total	**155.82**							

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	KSRRB M2700-6. PCC M15 Grade levelling course below approch slab complete as per drawing and technical specification complete as per specification MORTH Specification No. 2700 (Pg No.247 Ino.32.6)								
31	**M15 Approach Slab**								
	Box Culvert	LHS	2	2.45	3.35	0.10	1.64		
	Box Culvert	RHS	2	2.45	3.35	0.10	1.64		
	Total Quantity						**3.28**		
	Basic Rate	5422.00						**5747.32**	**18868.45**
	Area Weightage 6%	325.32							
	Grand Total	**5747.32**							
	KSRRB M2700-6. PCC M30 Reinforced cement concrete M30 approach slab including reinforcement @ 70 Kg/cum and formwork complete as per drawing and technical specification including cost of materials , labour,HOM complete as per specifications. MORTH Specification No. 1500, 1600, 1700 & 2704 (Pg No.247 Ino.32.7)								
32	**M30 Approach Slab including Reinforcement**								
	Box Culvert	LHS	2	2.45	3.50	0.30	5.15		
	Box Culvert	RHS	2	2.45	3.50	0.30	5.15		
	Total Quantity						**10.29**		
	Basic Rate	9961.00						**10558.66**	**108648.61**
	Area Weightage 6%	597.66							
	Grand Total	**10558.66**							
	KSRRB M2300-9.1. Providing and placing Reinforced / Prestressed cement concrete in super- structure as per drawing and technical specification complete as per specifications. PSC with OPC design mix M40 @ 420kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.67 cum and fine aggregates @ 0.44 cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 including cost of materials,labour,HOM , curing,form works, scaffolding and centering complete as per specifications. MORTH Specification No. 1500,1600 & 1700 **(pgNo. 235 INo.29.19) Height upto 5 m**								
33	**M40 RCC Crash Barrier**								
	Box Culvert + Approach Slab	LHS	2	9.200			18.40		
	Box Culvert + Approach Slab	RHS	2	10.200			20.40		
	Total Quantity						**38.80**		
	Basic Rate	7434.00						**7880.04**	**305745.55**
	Area Weightage 6%	446.04							
	Grand Total	**7880.04**							

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	KSRRB M2500-4.1. Providing and laying stones of size 0.3x0.3x0.3 m on slopes laid over prepared filter media inculding boulder apron laid dry in front of toe of embankment complete as per drwaing and technical specifications Inculding cost of materials,labour,HOM complete as per specifications.A. Stone / Boulder MORTH Specification No.2504(Pgno.241 INo. 30.5)								
35	**Providing Stone Pitching at Slope**								
		LHS	2	3.699	Sqm	0.300	2.22		
		RHS	2	6.235	Sqm	0.300	3.74		
	Total Quantity	**Cum**					**5.96**		
	Basic Rate	1613.00						**1709.78**	**10190.551**
	Area Weightage 6%	96.78							
	Grand Total	**1709.78**							
	KSRRb M800-6. Painting two coats on New concrete Surface: Painting two coats after filling the surface with synthetic enamel paint in all shades on new plasterred concrete surfaces complete as per Specifications. MORTH Specfication no.803 (PGNo.181 INO. 24.7)								
36	**RCC Crash Barrier Painting**								
		LHS	1	9.20	1.50		13.80		
		RHS	1	10.20	1.50		15.30		
	Total Quantity	**Cum**					**29.10**		
	Basic Rate	82.00						**86.92**	**2529.37**
	Area Weightage 6%	4.92							
	Grand Total	**86.92**							
	Samudaya Bhavan Part-B								
	KSRB 2-1.1: Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. (P5/2.1)	Cum							
37	Lowering Levelling		1	10.00	7.30	0.20	14.60		
	Basic Rate	249.00					**14.60**		
	Area Weightage @ 8%	19.92						**268.92**	**3926.00**
	Total	**268.92**							

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	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m. In depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. after breaking of clods complete as per specifications. Specification. No. KBS 2.1(b) / 2.3.5 (P.5/2.4 PWD SR 2018-19).	Cum							
38	CCL		1	38.50	0.90	0.80	27.72		
	Columns		8	1.50	1.50	1.65	29.70		
	Stair Case Foundation		1	1.50	0.60	0.60	0.54		
							57.96		
	Deductions for Columns Portions(-)		8	1.50	0.90	0.90	9.72		
							48.24		
	Basic Rate	299.00						**322.92**	**15578.00**
	Area Weightage @ 8%	23.92							
	Total	**322.92**							
	KSRB 2.8: Providing and Filling in foundation with granite / trap broken metal 100mm. And down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. Complete as per specifications. (P6/2.15)	Cum							
39	Columns		8	1.50	1.50	0.25	4.50		
							4.50		
	Basic Rate	2429.00						**2623.32**	**11805.00**
	Area Weightage @ 8%	194.32							
	Total	**2623.32**							
	KSRRB 2900-4.1: Providing and laying in position plain cement concrete mix 1:4:8 with stone aggregate 40mm and down size in foundation upto a depth of 2m below ground level and upto a height of 1.5m above ground level / bed level machine mixed, concrete laid in layers not exceeding 15cms thick well compacted, cost of all materials, labour, HOM of machineries, curing complete as per specifications. (P.12/4.3)	Cum							
40	A) Foundation :-								
	CCL		1	38.50	0.90	0.15	5.20		
	Columns		8	1.50	1.50	0.15	2.70		
	Stair Case Foundation		1	1.50	0.60	0.15	0.14		
	Flooring for staff room		1	3.45	3.00	0.15	1.55		
	Reception room		1	3.45	3.00	0.15	1.55		
	Study Hall		1	7.40	8.70	0.15	9.66		
	Varandah		1	8.70	3.45	0.10	3.00		
							23.80		
	Deductions for Columns Portions(-)		8	1.50	0.90	0.15	1.62		
							22.18		
	Basic Rate	5102.00						**5510.16**	**122193.00**
	Area Weightage @ 8%	408.16							

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	Total	5510.16							
	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specification. KBS 5.1.13 (P.22/5.6)	Cum							
41	CCL 1st Footing		1	38.50	0.75	0.35	10.11		
	2nd Footing		1	38.50	0.60	0.45	10.40		
							20.50		
	Deductions for Columns Portions(-) Columns		8	0.60	0.20	0.35	0.34		
			15	0.60	0.20	0.45	0.81		
							19.36		
	Basic Rate	4596.00						4963.68	96073.00
	Area Weightage @ 8%	367.68							
	Total	4963.68							
	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 (P.22/5.9)	Cum							
42	CCL Basement		1	38.50	0.45	0.45	7.80		
	Deductions for Columns Portions(-) Columns		15	0.60	0.20	0.45	0.81		
							6.99		
	Basic Rate	5843.00						6310.44	44086.00
	Area Weightage @ 8%	467.44							
	Total	6310.44							
	KSRB 4-1.5: Providing and laying in position plain cement concrete of nominal mix 1:2:4 using 20mm and down size graded granite metal, machine mixed, concrete laid in layers not exceddding 15cms. Thick well compacted in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specification.(P13/4.6)	Cum							
43	Coping Concrete		1	38.50	0.45	0.10	1.73		
							1.73		
	Deductions for Columns Portions(-) Columns		15	0.60	0.20	0.10	0.18		
							1.55		
	Basic Rate	5422.00						5855.76	9091.00
	Area Weightage @ 8%	433.76							
	Total	5855.76							
	KSRB 15.1.1 Providing flush pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.115/I.15.1)	Sqm							

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44	Outside		2	15.20		0.45	13.68		
			2	9.10		0.45	8.19		
							21.87		
	Basic Rate	144.00						155.52	3401.00
	Area Weightage @ 8%	11.52							
	Total	155.52							
	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. (P.7/2.10 PWD SR - 2018-19).	Cum							
45			Qty vide item No.2				48.24		
	Basic Rate	201.00						217.08	10472.00
	Area Weightage @ 8%	16.08							
	Total	217.08							
	KSRB 2.6: Prividing and filling sand in foundation upto plinth to required depth for sub soil treatment including watering ramming with all lead and lift complete as per specifications. (P7/2.13)	Cum							
46	Flooring for staff room		1	3.45	3.00	0.15	1.55		
	Reception room		1	3.45	3.00	0.15	1.55		
	Study Hall		1	7.40	8.70	0.15	9.66		
	Varandah		1	8.70	3.45	0.15	4.50		
							17.26		
	Basic Rate	2060.00						2224.80	38409.50
	Area Weightage @ 8%	164.80							
	Total	2224.80							
	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of materials, labour complete as per specifications. (P15/4.28)	Sqm							
47	Footings		15 x 4	1.50		0.60	54.00		
							54.00		
	Basic Rate	258.00						278.64	15046.56
	Area Weightage @ 8%	20.64							
	Total	278.64							
	KSRB 4-6.5: Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square/ rectangular/polygon in plan including cost of all materials, labour complete as per specifications. (P15/4.32)	Sqm							
48	A) Ground Floor:- Columns		15	1.60		4.80	115.20		
	Basic Rate	312.00						336.96	38817.79
	Area Weightage @ 8%	24.96							
	Total	336.96							
	B) First Floor:- Columns		15	1.60		3.00	72.00		
	Basic Rate	312.00						340.20	24494.40
	Lift Charges For First Floor	3.00							

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		315.00							
	Area Weightage @ 8%	25.20							
	Total	340.20							
	KSRB 4-6.9: Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor, cills, plinth including cost of all materials, labour complete as per specifications. (P15/4.36)	Sqm							
49	Plinth		2	38.50		0.30	23.10		
							23.10		
	Basic Rate	755.00						**815.40**	**18835.74**
	Area Weightage @ 8%	60.40							
	Total	815.40							
	KSRB 4-6.7: Providing and removing centerign, shuttering strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of materials, labour complete as per specifications.(P15/4.34)								
50	A) Ground Floor:- Lintel		2	69.00		0.20	27.60		
			12	3.00		0.20	7.20		
	Tie Beams		2	72.50		0.30	43.50		
	Center beam		2	8.70		0.45	7.83		
							86.13		
	Basic Rate	292.00						**315.36**	**27161.96**
	Area Weightage @ 8%	23.36							
	Total	315.36							
	B) First Floor:- Lintel		2	69.00		0.20	27.60		
			12	3.00		0.20	7.20		
	Tie Beams		2	72.50		0.30	43.50		
	Center beam		2	8.70		0.45	7.83		
							86.13		
	Basic Rate	292.00						**318.60**	**27441.02**
	Lift Charges For First Floor	3.00							
		295.00							
	Area Weightage @ 8%	23.60							
	Total	318.60							
	KSRB 4-6.10 : Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc., including edges including cost of all materials, labour complete as per specification. Specification No. KBS 4.6.2 (P.15/I.4.37)	Sqm							
51	A) Ground Floor:- Racks		6*2*3	3.00	0.45		48.60		
			2*3	7.40	0.45		19.98		
			1*3	8.70	0.45		23.49		
			2*2*3	3.00	0.45		16.20		
	Window chejjas		2*2*3	3.45	0.45		18.63		
			8	2.10	0.45		7.56		
							134.46		
	Basic Rate	323.00						**348.84**	**46905.03**
	Area Weightage @ 8%	25.84							
	Total	348.84							
	B) First Floor:-Racks								
			6*2*3	3.00	0.45		48.60		
			1*3	7.40	0.45		9.99		
			1*3	10.85	0.45		14.65		

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			1*3	8.70	0.45		23.49		
			1*3	5.70	0.45		15.39		
			1*2*3	3.00	0.45		8.10		
			1*2*3	3.45	0.45		9.32		
	Window chejjas		8	2.10	0.45		7.56		
							137.09		
	Basic Rate	323.00						352.08	48267.53
	Lift Charges For First Floor	3.00							
		326.00							
	Area Weightage @ 8%	26.08							
	Total	352.08							
	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200mm including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (P.14/I.4.29)	Sqm							
52	A) Ground Floor:- Roof		1	14.80	8.70		128.76		
	Landing		1	3.00	1.50		4.50		
	First Flight		1	3.00	1.50		4.50		
	Second Flight		1	2.40	1.50		3.60		
							115.61		
	Basic Rate	440.00						475.20	54937.87
	Area Weightage @ 8%	35.20							
	Total	475.20							
	B) First Floor:- Roof		1	14.80	8.70		128.76		
	Landing		1	3.00	1.50		4.50		
	First Flight		1	3.00	1.50		4.50		
	Second Flight		1	2.40	1.50		3.60		
							115.61		
	Basic Rate	440.00						478.44	55312.45
	Lift Charges For First Floor	3.00							
		443.00							
	Area Weightage @ 8%	35.44							
	Total	478.44							
	KSRB 4.2.8 : Providing and laying in position reinforced cement concrete of mix 1:1.5:3 with 20mm and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for R.C.C beams, columns of all sizes in foundation plinth and superstructure ground floor level for roof slabs, staircase, lintels, columns, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.6 (P.13/I.4.13)	Cum							
53.0	A) Ground Floor:- Footing Concrete		15	1.50	1.50	0.60	20.25		
	Columns		15	0.60	0.20	4.80	8.64		
	Plinth		1	72.50	0.20	0.30	4.35		
	Lintel		1	69.00	0.20	0.20	2.76		
	Book racks wall lintel concrete		6	3.00	0.20	0.20	0.72		
	Tie Beams		1	72.50	0.20	0.30	4.35		
	Center beam		1	8.70	0.20	0.45	0.78		
	Roof		1	15.20	9.10	0.15	20.75		
	Staire Case Foundation		1	1.50	0.60	0.60	0.54		
	Landing Slab		1	3.00	1.50	0.15	0.68		

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	1st Flight		1	3.00	1.50	0.15	0.68		
	2nd Flight		1	2.40	1.50	0.15	0.54		
	Steps		28x1/2	1.50	0.25	0.12	0.63		
							65.66		
	Deductions (-)								
	Plinth		15	0.60	0.20	0.30	0.54		
	Lintel		15	0.60	0.20	0.20	0.36		
	Beam		15	0.60	0.20	0.30	0.54		
							64.22		
	Basic Rate	5892.00							
	Area Weightage @ 8%	471.36						**6363.36**	**408661.34**
	Total	6363.36							
	B) First Floor:- Columns		15	0.60	0.20	3.00	5.40		
	Lintel		1	69.00	0.20	0.20	2.76		
	Book racks wall lintel concrete		6	3.00	0.20	0.20	0.72		
	Tie Beams		1	72.50	0.20	0.30	4.35		
	Center beam		1	8.70	0.20	0.45	0.78		
	Roof		1	15.20	9.10	0.15	20.75		
	Landing Slab		1	3.00	1.50	0.15	0.68		
	First Flight		1	3.00	1.50	0.15	0.68		
	Second Flight		1	2.40	1.50	0.15	0.54		
	Steps		26x1/2	1.50	0.25	0.12	0.59		
							37.24		
	Deductions (-)								
	Lintel		15	0.60	0.20	0.20	0.36		
	Beam		15	0.60	0.20	0.30	0.54		
							36.34		
	Basic Rate	5892.00						**6417.36**	**233181.19**
	Lift Charges For First Floor	50.00							
		5942.00							
	Area Weightage @ 8%	475.36							
	Total	6417.36							
	KSRB 4.2.10 : Providing and laying in position reinforced cement concrete of mix 1:1.5:3 (M20) with 12mm and down size graded granite metal, machine mixed, well compacted for plain chajja of 7.5 cms average thickness, upto ground floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 (P. 13/4.19 PWD SR - 2018-19).	Sqm							
54	A) Ground Floor:- Racks		6*2*3	3.00	0.45		48.60		
			2*3	7.40	0.45		19.98		
			1*3	8.70	0.45		23.49		
			2*2*3	3.00	0.45		16.20		
			2*2*3	3.45	0.45		18.63		
	Window chejjas		8	2.10	0.45		7.56		
							134.46		
	Basic Rate	440.00						**475.20**	**63895.00**
	Area Weightage @ 8%	35.20							
	Total	475.20							
	B) First Floor:-Racks		6*2*3	3.00	0.45		48.60		
			1*3	7.40	0.45		9.99		
			1*3	10.85	0.45		14.65		
			1*3	8.70	0.45		23.49		
			1*3	5.70	0.45		15.39		
			1*2*3	3.00	0.45		8.10		
	Window chejjas		1*2*3	3.45	0.45		9.32		
			8	2.10	0.45		7.56		
							137.09		

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								478.44	65591.00
	Basic Rate	440.00							
	Lift Charges For First Floor	3.00							
		443.00							
	Area Weightage @ 8%	35.44							
	Total	478.44							
	Providing and fabricating TMT Steel	Tonne							
55	0.11 Qtl. / Cum			Qty Vide Item No 17 & 18			11.06		
							11.06		
	Basic Rate	70996.00						76675.68	848156.00
	Area Weightage @ 8%	5679.68							
	Total	76675.68							
	Lift charges for steel of all diameters for additional floors over ground floor per floor height of 3.5m. Or part there of cost of labour,complete as per specifications.	Tonne							
56				First floor of quantity			32.63		
	Basic Rate	748.00						807.84	26359.82
	Area Weightage @ 8%	59.84							
	Total	807.84							
	KSRB 5-14: Providing and constructing precast concrete solid blocks with compressive strength not less than 35Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. (P24/5.27)	Cum							
57	A) Ground Floor:-								
	Long Walls		2	15.20	..	3.30	100.32		
	Short Walls		3	8.70	...	3.30	86.13		
			1	3.45	...	3.30	11.39		
	Book racks walls		6	3.00	...	3.30	59.40		
	B) First Floor:-								
	Long Walls		2	15.20	..	3.00	91.20		
	Short Walls		2	8.70	...	3.00	52.20		
			1	3.40	...	3.00	10.20		
	Book racks walls		2	3.45	...	3.00	20.70		
	Parapet		6	3.00	...	3.00	54.00		
			2	15.20	...	0.60	18.24		
			2	8.70	...	0.60	10.44		
							514.22		
	Ground & First Floor Deductions (-)								
	Ground floor:-Columns		15	0.60		3.30	29.70		
	Lintel		1	69.00		0.20	13.80		
	Book racks wall lintel concrete		6	3.00		0.20	3.60		
	Tie Beams		1	72.50		0.30	21.75		
	D		2	1.50		2.10	6.30		
	w		8	1.80		1.20	17.28		
	V		8	1.80		0.60	8.64		
	First floor:-Columns		15	0.60		3.00	27.00		
	Lintel		1	69.00		0.20	13.80		
	Book racks wall lintel concrete		6	3.00		0.20	3.60		
	Tie Beams		1	72.50		0.30	21.75		
	D1		3	0.90		2.10	5.67		
	w		8	1.80		1.20	17.28		
	V		8	1.80		0.60	8.64		
							198.81		
							315.41		
	Basic Rate	912.00						984.96	310661.00

	Area Weightage @ 8%	72.96							
	Total	964.96							
	Providing and laying flooring for corridors/lobbies using combination of pre polise 19mm thick water cut/gang saw Grey Granite, Black Granite, and strips of 50mm wide pre flamed grey granite using pre polised grey granite 19mm thick 76 % Pre ploised black granite 19mm thick @ 2% and preflamed 19mm thick grey granite @ 22 % over exixting cement/ colour pigment etc., including cost of all materials, mortar, labour, curing etc., complete as per specification.14.48.1 using 19mm granite width not less than 1200 mm Page No-114 I.no-14.48	Sqm							
58	A)Ground floor:- staff room		1	3.45	3.00		10.35		
	Skirting		2	3.45		0.10	0.69		
			2	3.00		0.10	0.60		
	Reception room		1	3.45	3.00		10.35		
	Skirting		2	3.45		0.10	0.69		
			2	3.00		0.10	0.60		
	Study Hall		1	7.40	8.70		64.38		
	Skirting		2	7.40		0.10	1.48		
			2	8.70		0.10	1.74		
	Varandah		1	8.70	3.45		30.02		
	Skirting		2	8.70		0.10	1.74		
			2	3.45		0.10	0.69		
	Landing Slab		1	3.00	1.80		5.40		
	1st Flight		1	3.00	1.80		5.40		
	2nd Flight		1	2.40	1.80		4.32		
	Stepsthreads		28	1.50	0.25		10.50		
	Risers		28	1.50		0.12	5.04		
							153.99		
	Basic Rate	2621.00							
	Area Weightage @ 8%	209.68						2830.68	435882.00
	Total	2830.68							
	B)First floor:- computer room		1	3.45	3.00		10.35		
	Skirting		2	3.45		0.15	1.04		
			2	3.00		0.15	0.90		
	Office room		1	2.50	3.00		7.50		
	Skirting		2	2.50		0.15	0.75		
			2	3.00		0.15	0.90		
	Study Hall		1	7.40	8.70		64.38		
			1	3.65	3.00		10.95		
	Skirting		2	7.40		0.15	2.22		
			1	8.70		0.15	1.31		
			3	3.45		0.15	1.55		
	Varandah		1	2.50	3.45		8.63		
	Skirting		2	2.50		0.15	0.75		
			2	3.45		0.15	1.04		
	Landing Slab		1	3.00	1.80		5.40		
	1st Flight		1	3.00	1.80		5.40		
	2nd Flight		1	2.40	1.80		4.32		
	Stepsthreads		26	1.50	0.25		9.75		
	Risers		26	1.50		0.12	4.68		
							112.25		
	Basic Rate	2621.00							
	Lift Charges For First Floor	1.50						2832.30	317933.00
		2622.50							
	Area Weightage @ 8%	209.80							
	Total	2832.30							

	KSRB 9.11: Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps) but including cost of materials, labour, HOM of machineries complete as per specifications. Specifications No, KSRB 9.4-2(page No. 53/Item No. 9.10)	Cum							
59	D		2*2	2.10	0.12	0.12	0.12		
			2*2	1.80	0.12	0.12	0.10		
	D1		3*2	2.10	0.10	0.10	0.13		
			3*2	1.20	0.10	0.10	0.07		
	W		16*2	1.20	0.10	0.10	0.19		
			16*2	2.10	0.10	0.10	0.34		
	v		16*2	2.10	0.10	0.10	0.34		
			16*2	0.60	0.10	0.10	0.10		
							1.38		
	Basic Rate	87604.00						94612.32	130814.78
	Area Weightage @ 8%	7008.32							
	Total	94612.32							
	KSRB: 9-27-1: Fixing of door frame in an existing opening including embeeding frame in floor and walls after cutting masonry for holdfasts for embeddding holdfast in cement concrete 1:3:6 of 20mm and down size granite matal painting two coats of coal tar to sides of frame making good the damages to walls and floor as reguired and diposal of the debries with lead upto 50m including cost of materials labour charges complete as per Specifications. (Page No. 51/ Item No. 9.80)	No's							
60	**Door frames**		5				5.00		
	Basic Rate	1366.00						1475.28	7376.40
	Area Weightage @ 8%	109.28							
	Total	1475.28							
	Window frames		16				16.00		
	Basic Rate	926.00						1000.08	16001.28
	Area Weightage @ 8%	74.08							
	Total	1000.08							
	Ventilator frames		16				16.00		
	Basic Rate	791.00						854.28	13668.48
	Area Weightage @ 8%	63.28							
	Total	854.28							
	KSRB 9.7.1: Providing and fixing in position fully panelled Honne wood shutters for doors styles and rails of 30mm. Thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (eccluding cost of fixtures) Specification No. KBS 9.34 (page No. 46/Item No. 9.21)	Sqm							

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61	D		2	1.50		2.10	6.30		
	D1		3	0.90		2.10	5.67		
	Basic Rate	4287.00					11.97		
	Area Weightage @ 8%	342.96						4629.96	55420.62
	Total	4629.96							
	KSRB 9.21.2: Providing and fixing in position half panelled Honne wood shutters for window&ventilatorsstyles and rails of 20mm. Thick with bottom and lock rails 75mm wide top rail and styles 100mm wide as per drawing and panels of 20mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (ecoluding cost of fixtures) Specification No. KBS 9.34 (page No. 46/item No. 9.64)	Sqm							
62	w		16	1.80		1.20	34.56		
	v		16	1.80		0.60	17.28		
							51.84		
	Basic Rate	3947.00						4262.76	220981.48
	Area Weightage @ 8%	315.76							
	Total	4262.76							
	KSRB 7.9: Providing and fixing M.S. Grill work for windows and ventilators weighing 21 kg/sqm using M.S Flats or M.S. Square roads, or combination of M.S. flats and quare roads as per approved design drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12 p no 35 item No. 7.9	Kg's							
63	w		16	1.80		1.20	34.56		
	v		16	1.80		0.60	17.28		
	Staire case grill		2	4.50		0.60	5.40		
							57.24		
	Basic Rate	95.00					1202.04		
	Area Weightage @ 8%	7.60						102.60	123329.30
	Total	102.60							
	KSRB 7.1: Providing and fixing in position collapsable steel shutters with single or double leaf with vertical channel 20mmx10mmx2mm braced with flat iron diagonals 20mmx5mm size, with top and bottom rails of T iron sections of 40x40x6mm with 38mm dia steel pulleys complete with bolt and nuts, locking arrangements, stopers, handles on borht sides with 7.5cms opeinings at 10cms. c to c applying a priming coat of red lead paint. cost of materials, labour, HOM of machinery complete as per specifications.(P33/7.1)	Sqm							
64	CG		1	3.45		2.10	7.25		
							7.25		

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	Basic Rate	5210.00						5626.80	40766.17
	Area Weightage @ 8%	416.80							
	Total	5626.80							
	KSRB 14.14.5 Providing ceramic Tiles of Approved make shade and size for flooring , treads of steps and landing laid on a bed of 12mm thick, cement mortor 1:3 mix , flush pointing with white cement using colour pigment, including cost of Materias , labour curing complete as per specification No. KBS Ceramic tiles of size 15x15cm , 6mm thick	Sqm							
65	Toilet flooring		2	1.50	1.50		4.50		
								1213.92	5462.64
	Basic Rate	1124.00							
	Area Weightage @ 8%	89.92							
	Total	1213.92							
	KSRB 14.17.1 : Providing skirting dado, rises of steps with white glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately)using glazed tiles of approved make and size including cost of materials labour, complete as per specifications. Specification No. KBS 14.16., 14.17 (Page no. 94/ Item No. 14.40	Sqm							
66	Side walls		8	1.50		1.50	18.00		
							18.00		
	Basic Rate	1168.00						1261.44	22705.92
	Area Weightage @ 8%	93.44							
	Total	1261.44							
	KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P. 116/15.22)	Sqm							
67	A)Ground floor:- staff room		1	3.45	3.00		10.35		
	Reception room		1	3.45	3.00		10.35		
	Study Hall		1	7.40	8.70		64.38		
	Varandah		1	8.70	3.45		30.02		
	Landing Slab		1	3.00	1.50		4.50		
	1st Flight		1	3.00	1.50		4.50		
	2nd Flight		1	2.40	1.50		3.60		
							127.70		
	Basic Rate	225.00							
	Area Weightage @ 8%	18.00						243.00	31030.00
	Total	243.00							
	B)First floor:- computer room								
	Office room		1	3.45	3.00		10.35		
	Study Hall		1	2.50	3.00		7.50		
			1	7.40	8.70		64.38		
	Varandah		1	3.65	3.00		10.95		
	Landing Slab		1	2.50	3.45		8.63		
	1st Flight		1	3.00	1.80		5.40		
			1	3.00	1.80		5.40		

	2nd Flight		1	2.40	1.80		4.32		
	Basic Rate	225.00					116.93		
	Lift Charges For First Floor	3.00						246.24	28792.00
		228.00							
	Area Weightage @ 8%	18.24							
	Total	246.24							
	KSRB15-3.5 : Providing 15mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P.115/15.14)	Sqm							
68	A)Ground floor:- staff room		2	3.45		3.30	22.77		
	Reception room		2	3.00		3.30	19.80		
			2	3.45		3.30	22.77		
	Study Hall		2	3.00		3.30	19.80		
			2	7.40		3.30	48.84		
	Varandah		2	8.70		3.30	57.42		
			2	8.70		3.30	57.42		
	Book rack walls		2	3.45		3.30	22.77		
			12	3.45		3.30	136.62		
							408.21		
	Deductions (-):- w		8	2.40		1.50	28.80		
	V		8	2.40		0.60	11.52		
	D		1	1.50		2.10	3.15		
	D1		1	0.90		2.10	1.89		
							45.36		
							362.85		
	Basic Rate	208.00						224.64	81511.00
	Area Weightage @ 8%	16.64							
	Total	224.64							
	B)First floor:- computer room		2	3.45		3.00	20.70		
			2	3.00		3.00	18.00		
	Office room		2	2.50		3.00	15.00		
			2	3.00		3.00	18.00		
	Study Hall		2	7.40		3.00	44.40		
			1	8.70		3.00	26.10		
			3	3.45		3.00	31.05		
	Varandah		2	2.50		3.00	15.00		
			2	3.45		3.00	20.70		
	Book rack walls		12	3.45		3.00	124.20		
							312.45		
	Deductions (-):- w		8	2.40		1.50	28.80		
	V		8	2.40		0.60	11.52		
	D		1	1.50		2.10	3.15		
	D1		2	0.90		2.10	3.78		
							47.25		
							265.20		
	Basic Rate	208.00						227.88	60434.00
	Lift Charges For First Floor	3.00							
		211.00							
	Area Weightage @ 8%	16.88							
	Total	227.88							
	KSRB15-7 : Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications. (P.117/15.33)	Sqm							
69	A) Ground Floor	Qty Vide Item No. 24(A) + 25(A)					490.55	34.56	16953.00
	Basic Rate	32.00							
	Area Weightage @ 8%	2.56							

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	Total	34.56							
	B) First Floor	Qty Vide Item No. 24(B) + 25(B)					382.13		
								37.80	14444.00
	Basic Rate	32.00							
	Lift Charges For First Floor	3.00							
		35.00							
	Area Weightage @ 8%	2.80							
	Total	37.80							
	KSRB15-3.11 : Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry and concrete surface including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P.116/15.19)	Sqm							
70	Roof surface plastering		1	15.20	8.70		132.24		
							132.24		
								237.60	31420.00
	Basic Rate	217.00							
	Lift Charges For First Floor	3.00							
		220.00							
	Area Weightage @ 8%	17.60							
	Total	237.60							
	KSRB 15.3.3 Providing 12mm thick cement plaster in single coat with cement mortar 1:6 to brick masonry including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P115/15.11)	Sqm							
71	A) Ground Floor:-								
	Long Walls		2	15.20	..	3.30	100.32		
	Short Walls		2	9.10	...	3.30	60.06		
							160.38		
	Deductions (-):- w		8	1.80		1.20	17.28		
	V		8	1.80		0.60	8.64		
							25.92		
							134.46		
	Basic Rate	193.00							
	Area Weightage @ 8%	15.44						208.44	28026.84
	Total	208.44							
	B)First Floor:-								
	Long Walls		2	15.20	..	4.60	139.84		
	Short Walls		2	9.10	...	4.60	83.72		
							223.56		
	Deductions (-):- w		8	1.80		1.20	17.28		
	V		8	1.80		0.60	8.64		
							25.92		
	Basic Rate	193.00					197.64		
	Lift Charges For First Floor	3.00						211.68	41836.00
		196.00							
	Area Weightage @ 8%	15.68							
	Total	211.68							

	KSRB 8.6-8: Providing and fixing on wall surface 4.0Kg/Sqcm HDPE rain down water pipes 110mm outer dia. Approved makes and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete as per specifications. (P49/8.19)	Rmtr							
72			4	6.80			27.20		
								552.96	15041.00
	Basic Rate	512.00							
	Area Weightage @ 8%	40.96							
	Total	552.96							
	KSRB 15-14.1: Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.(P119/15.49)	Sqm							
73	A) Ground Floor		Qty vide item No 26(A)				490.55		
								51.94	25479.00
	Basic Rate	48.09							
	Area Weightage @ 8%	3.85							
	Total	51.94							
	B) First Floor		Qty vide item No 26(B)				382.13		
								53.00	20253.00
	Basic Rate	48.07							
	Lift Charges For First Floor	1.00							
		49.07							
	Area Weightage @ 8%	3.93							
	Total	53.00							
	KSRB 15-13.3: Providing and applying two coats dry distemper of approved brand, and shade on wall surface including priming coat and whitening after thoroughly brooming the surface to remove all dirt, dust, mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. (P.118/15.47.1)	Sqm							
74	A) Ground Floor		Qty Vide Item No. 28(A)				134.46		
	Basic Rate	33.76						36.46	4902.00
	Area Weightage @ 8%	2.70							
	Total	36.46							
	B) First Floor		Qty Vide Item No. 28(B)				197.64		
	Basic Rate	33.74						37.52	7415.00
	Lift Charges For First Floor	1.00							
		34.74							
	Area Weightage @ 8%	2.78							
	Total	37.52							

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	KSRB13-1.1 : Providing and fixing to wall, ceiling and floor galvanised/mild steel tube 15 mm dia nominal bore with fittings (medium grade weight 1.27 kg/mtr) B class including cost of all materials, labour charges, HOM of equipments and testing complete as per specifictaions. Specification No. KBS 13.2.14/13.8. (P-92 & 13.1).	**M**							
75			1	20.00			20.00		
	Basic Rate	203.00						219.24	4384.80
	Area Weightage @ 8%	16.24							
	Total	219.24							
	KSRB 11-11.8 : Providing and fixing white vitreous china clay, surgeon type wash basin size 660 x 460 with a pair of 15 mm C.P. brass pillar taps with pair of elbow operated levers, C.I./M.S. brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour, curing complete as per specification. KBS 11 **(Page : 83 Item No. 12.30)**	**Unit**							
75			2				2.00		
	Basic Rate	4605.00						4973.40	9946.80
	Area Weightage @ 8%	368.40							
	Total	4973.40							
	KSRB 13-6.1-1 : Providing and fixing in position brass bib cock of approved quality 25 mm nominal bore including cost of all materials, labour and HOM of equipments with all leads, complete as per specifications. Specification No. KBS 13.2.2/13.3 **(Page No. 80 & Item No. 13.23).**	**Each**							
76			2				2.00		
	Basic Rate	190.00						201.40	402.80
	Area Weightage @ 8%	11.40							
	Total	201.40							
	KSRB 11-2 : Providing and fixing white vitreous china clay, water closet Orissa Pattern of size 580 x 440 mm with integral type footrest, 100mm S or P trap, 10 litre low level, P.V.C. flushing cistern (all are approved make) with fittings, C.I./M.S. brackets, 32 mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25 mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour, curing complete as per specification. KBS 11 **(Page : 67 Item No. 12.2)**	**Pan**							

AARTI ASSOCIATES BANGALORE

77			2				2.00		
	Basic Rate	4224.00						4561.92	9123.84
	Area Weightage @ 8%	337.92							
	Total	4561.92							
	KSRB 11-8.1 : Providing and fixing white vitreous china clay, wall corner type, lipped front urinal basin of size 580 x 440 x 265 mm with 5 litres P.V.C. automatic flushing cistern C.I./M.S. brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour, curing complete as per specification. KBS 11 **(Page : 80 Item No. 12.11)**	Unit							
77			2				2.00		
	Basic Rate	2648.00						2859.84	5719.68
	Area Weightage @ 8%	211.84							
	Total	2859.84							
	Supplying water storage tanks made of virgin polymer (LLDPE) with two layers outer black or Blue and inner white layer of approved quality and make, conforming to I.S.I/ISO/SSI specifications.	Ltr.							
78			2000				2000.00		
	Basic Rate	6.00						6.48	12960.00
	Area Weightage @ 8%	0.48							
	Total	6.48							
	KSRB 11-15.3: Providing and fixing 453x357mm rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing incluidng cost of materials, labour complete as per specifications.	Unit							
79			2				2.00		
	Basic Rate	1136.00						1226.88	2453.76
	Area Weightage @ 8%	90.88							
	Total	1226.88							
	Applying Primer coat over new wood surface and / or wood based surface with white lead paint priming including preparing the surface afetr throughly cleaning oil, grease, dirt and other foreign matter, sand papering and knotting ready mix paint including cost of materials, labour complete as per Specifications (P No. 102 Item No.15.59 PWD SR 2018-19	Sqm							
80	D	2.25	2	1.50		2.10	14.18		
	D1	2.25	3	0.90		2.10	12.76		
	W	2.25	16	1.50		1.20	64.80		
	V	2.25	16	1.50		0.60	32.40		
							124.13		
	Basic Rate	50.00							
	Area Weightage @ 8%	4.00						54.00	**6703.00**
	Total	54.00							

	Providing and Applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, clening the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications (P No. 102 Item No.15.60 PWD SR 2018-19	Sqm							
81			Vide Item No. 45				124.13		
	Basic Rate	74.00						79.92	9921.00
	Area Weightage @ 8%	5.92							
	Total	79.92							
	Supplying and wiring adoptiong loop system in existing PVC conduit /casing caping using copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of the wires shall be terminated with sufficient loose legnth in a wood/PVC round block, complete for each outlet. (P.4/I.8.I.C) Electrical-SR 2012-13)	No.							
82	b) Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch		15				15		
	c) Long point above 6Mtr upto 10Mtr from tapping point to out let via switch		10				10	175.00	2625.00
								368.00	3680.00
	Supplying 6A flush /projected type socket and a 6 amps flush/projected type SP switch either surface mounting in a gang box or in a 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required. (P.6/I.12a) Electrical -SR 2012-13)	No							
83			15				15		
								91.00	1365.00
	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, necessary masonry patch work complete. (P.4/I.6) Electrical -SR 2012-13)	Each							
84	a) 4"x4"x3"		10				10		
	b) 12"x12"x3"		6				6	44.00	440.00
	c) 10"x7"x3"		8				8	98.00	588.00
								68.00	544.00
	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches regulated etc.., and fixing on existing wooden or metal box using N.F. screws.., (P.10/I.22) Electrical SR - -SR 2012-13)	Sq. cmt							
85							3000.00		
								0.22	660.00

	Extra for groove cutting, plastering and colour washing for embedding PVC conduit/GI pipe and plastering finishing the wall upto wall surface complete upto 50mm conduit in brick in wall (P.3/I.7a) Electrical-SR 2012-13)	Rmtr							
86			6	40.00			240.00		
								14.00	3360.00
	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit..... The pit should be filled with equal proportion of salt and charcoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc, is to be established through GI wire of size as per IS1 specification 7.3.3 of IS 732 using 12 mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 122 mm dia. (P.68/I.2) Electrical -SR 2012-13)	Each							
87			6				6		
								3000.00	18000.00
	Supplying and fixing of porcelain fuse chanel with cut out on existing wooden/panel using ncessary nuts, bolts and washers etc complete (P.32/I.3a) Electrical -SR 2012-13)	Each							
88			10				10		
								54.00	540.00
	Supplying 20mm dia 2mm thick heavy guage PVC conduit pipe with suitable size bends, metal junction boxes, adhesive paste etc and running before concreting the slabs. The conduit should be tied to the reinforcement roads by using binding wire and unused ways of junction boxes and pipe ends should be covered using PVC and enclosures and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. (P.2/I.2a) Electrical -SR 2012-13)	Rmtr							
89			6	40.00			240.00		
								32.00	7680.00
	Supplying and fixing PBBC brass/Bakelite straight or slant batten holder and wiring, within 60W/230 Volts lamps. (P.13/I.12a) Electrical -SR 2012-13)	No.							
90			10				10		

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	Supply patty type fluorescent tube light fitting of 4 feet 40 watts fluorescent tube of 230 volts made of M.S. sheet and stove enameled with heavy duty polyfill aluminum choke, starter, locking type brass contact holders mounted on foldable type sheet base fully wired.for use on 230 volts AC supply including 1 Nos 4'-36/40 watts fluorecent tube A Group (P.16/I.2a) Electrical -SR 2012-13)	No							
91			20				20	60.00	600.00
	Wiring for lighting / power circute using one of PVC insulated 1100v/grade multies and copper conductor single core cable in open or consealed system of wiring A Group materials 1.50 Sqmm materials (P.9/I.20Ib) Electrical -SR 2012-13)	Rmtr							
92			6	160.00			960.00	400.00	8000.00
								15.00	14400.00
	Supplying and running of GI / Copper conductor for grounding & (along with other wires of CTS or conduit system of wiring) using if necessary suitable size clamps bolts nuts and washers etc. (P.68/I.3Ic) Electrical -SR 2012-13)	Rmtr							
93			5	6.00			30.00		
								221.00	6630.00
	Supplying and fixing miniature circuit breakers/Isolators on existing MCB distribution boards using necessary fixing materials and wiring complete as required (P.36/I.12Ba) Electrical -SR 2012-13)	No.							
94			5				5		
	Supplying capacitor type ceiling fan complete with down rod blades, shakle, regulator canopies etc., for operation on 230 volts, 50 cycles, Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system and as per technical data approved (Almanord, Unique ISI, Anchor, Crompton, Khaitan, Bajaj, Usha, Johnson make) (P.23/I.23/Ia) Electrical -SR 2012-13)	Nos							
95			10				10	370.00	1850.00
	Fixing a ceiling fan of all capacities and all types to the existing S hook with fan regulator to the existing board together with supplying and fixing a 5 ampers ceiling rose, necessary length of 23/0.0076 inch PVC insulated twin twisted copper wire and wiring completely. (P.29/I.8) Electrical -SR 2012-13)	Nos							
96			12				12	1900.00	19000.00

	Supplying and fixing 32mm dia class A GI pipe bracket upto 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole/wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires complete. (P.28/I.12b) Electrical-SR 2012-13)	Nos						105.00	1260.00
97			12				12		
	Digging of trench of 0.6m deep x 0.50mtr wide refiling the trench to the required ground level and consolidating etc., complete. In Hard Soil (P.70/I.6b) Electrical -SR 2012-13)	Rmtr						685.00	8220.00
98			1	40.00			40.00		
								50.00	2000.00
	for Rain water harvesting work including 40mm jelly, 20mm jelly coarse sand, fine sand, 12.50 mm chips as per data rates	Nos	2				2		
99								20882.00	41764.00
				Total construction cost					
				GST 12%					16803828.33
				DPR & PMC 2%					2016459.40
				Tender Premium 5%					336076.57
									840191.42
	Miscellaneous charges							Sub-Total	19996555.72
									3444.28
								Total	20000000.00
(Rup									

TIFIC and the work is found necessary.

1 This estimate is prepared as per
2 estimate are necessary and
3 limits.
4

Assistant Engineer

Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Estimate Cost Rs. 10000000.00

Name of Work: Desk Supply for students at Govt Schools and Colleges comes under yelahanka BBMP limits ward NO-1

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	Desk Supply for students at Govt Schools and Colleges comes under yelahanka BBMP limits ward NO-1 5 seater student duel desk	No							
			1				500.00	16800.00	8400000
	As per approved rate	16800.00							
					Total construction cost				8400000.00
					GST 12%				1008000.00
					DPR & PMC 2%				168000.00
					Tender Premium 5%				420000.00
10	Miscellaneous charges								4000.00
								Total	10000000.00

(Rupees One Crore Only)

CERTIFICATE

1. The work spot has been inspected and the work is found necessary.
2. This estimate is prepared as per C.S.R. of 2018-19
3. The provisions were made in this estimate are necessary and adequate.
4. This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

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BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 15000000.00

Name of Work: Improvements to road and drains at Maruthinagara yellamma temple and surrounding areas in kempegowda ward no-01 of Yelahanka Sub division

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. MORTH Specification No.301								
	for CC road								
	Chandra pillapa road		1	120.00	2.50	0.20	60.00		
	Traffic inspector house road		1	45.00	7.00	0.20	63.00		
	1st cross road		1	50.00	3.50	0.20	35.00		
	2nd cross road		1	100.00	4.50	0.20	90.00		
	Saptha giri layout 1st cr road		1	100.00	5.00	0.20	100.00		
	Gym cross road		1	60.00	5.50	0.20	66.00		
	Srinivasa house road		1	130.00	3.00	0.20	78.00		
	bajjappa road		1	65.00	2.50	0.20	32.50		
	Yellamma Temple cross road		1	125.00	5.00	0.20	125.00		
	Yellamma Temple main road		1	200.00	5.00	0.20	200.00		
	Yellamma Temple 1st cr road		1	60.00	5.00	0.20	60.00		
	Yellamma Temple 2nd cr road		1	54.00	5.00	0.20	54.00		
	Basic Rate	41.00					**903.50**	**125.59**	**113470.57**
	Area Weightage 6%	2.46							
	Grand Total	43.46							
	Loading and unloading + Basic Rate for Haulage upto 8.00 k.m =(1.28 X 2.50 X 8)+ 57	77.48							
	Area Weightage 6%	4.65							
		125.59							

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2	KSRB 2-2.1 : **Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical** conduits etc, either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. No. KBS 2.1 (a) I 2.3.5 page no 6	**cum**							
	for RCC drain								
	Traffic inspector house road		2	45.00	1.00	1.00	90.00		
	Srinivasa house road		1	130.00	1.00	1.00	130.00		
	Yellamma Temple 1st cr road		1	60.00	1.00	1.00	60.00		
	Yellamma Temple 2nd cr road		1	55.00	1.00	1.00	55.00		
	bajjappa road		1	100.00	1.00	1.00	100.00		
	Maruthinagara 4th cross road		1	100.00	1.00	1.00	100.00		
	for culverts								
	Yellamma Temple 1st cr road		2	5.00	1.65	1.20	19.80		
	Yellamma Temple 2nd cr road		2	5.00	1.65	1.20	19.80		
	Sapthagiri main road		4	6.00	1.65	1.20	47.52		
	Gym cross road		1	5.00	1.65	1.20	9.90		
	Yellamma temple link road		1	5.00	1.65	1.20	9.90		
	Toyota showroom opposite		1	5.00	1.65	1.20	9.90		
							651.82	**399.07**	**260121.81**
	Basic Rate	299.00							
	Area Weightage 6%	17.94							
	Grand Total	316.94							
	Loading and unloading + Basic Rate for Haulage upto 8.00 k.m =(1.28 X 2.50 X 8)+ 57	77.48							
	Area Weightage 6%	4.65							
		399.07							
3	**Removing &refixing stone slab of drain**	**sqm**							
	Desilting								
	Gym cross road								
	1st main cross road		1	200.00	0.90		180.00		
			1	200.00	0.90		180.00		
	Basic Rate	105.00					**360.00**	**111.30**	**40068.00**
	Area Weightage 6%	6.30							
	Grand Total	**111.30**							

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4	KSRB M300-19 Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specification no 301 pag no 147 It no 19.62								
	Desilting								
	Gym cross road		1	200.00	0.60	0.40	48.00		
	1st main cross road		1	200.00	0.60	0.40	48.00		
							96.00	**36.04**	**3459.84**
	Basic Rate	34.00							
	Area Weightage 6%	2.04							
	Grand Total	**36.04**							
5	KSRB 4-1.7 : **Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum** and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 Page No.13 Item No.4.7	cum							
	for RCC drain								
	Traffic inspector house road		2	45.00	1.00	0.15	13.50		
	Srinivasa house road		1	130.00	1.00	0.15	19.50		
	Yellamma Temple 1st cr road		1	60.00	1.00	0.15	9.00		
	Yellamma Temple 2nd cr road		1	55.00	1.00	0.15	8.25		
	bajjappa road		1	100.00	1.00	0.15	15.00		
	Maruthinagara 4th cross road		1	100.00	1.00	0.15	15.00		
	for culverts								
	Yellamma Temple 1st cr road		2	7.00	1.50	0.15	3.15		
	Yellamma Temple 2nd cr road		2	6.00	1.50	0.15	2.70		
	Sapthagiri main road		4	6.00	1.50	0.15	5.40		
	Gym cross road		1	5.00	1.50	0.15	1.13		
	Yellamma temple link road		1	5.00	1.50	0.15	1.13		
	Toyota showroom opposite		1	5.00	1.50	0.15	1.13		
							94.88	**5627.54**	**533941.00**
	Basic Rate	5309.00							
	Area Weightage 6%	318.54							
	Grand Total	5627.54							

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6	Providing **and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs.** with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications. Page No.270. Item No.37.59.1	**cum**							
	for bed								
	for RCC drain								
	Traffic inspector house road		2	45.00	0.90	0.15	12.15		
	Srinivasa house road		1	130.00	0.90	0.15	17.55		
	Yellamma Temple 1st cr road		1	60.00	0.90	0.15	8.10		
	Yellamma Temple 2nd cr road		1	55.00	0.90	0.15	7.43		
	bajjappa road		1	100.00	0.90	0.15	13.50		
	Maruthinagara 4th cross road		1	100.00	0.90	0.15	13.50		
	for culverts								
	Yellamma Temple 1st cr road		2	7.00	1.20	0.25	4.20		
	Yellamma Temple 2nd cr road		2	6.00	1.20	0.25	3.60		
	Sapthagiri main road		4	6.00	1.20	0.25	7.20		
	Gym cross road		1	5.00	1.20	0.25	1.50		
	Yellamma temple link road		1	5.00	1.20	0.25	1.50		
	Toyota showroom opposite		1	5.00	1.20	0.25	1.50		
	for side walls							**19.50**	
	for RCC drain	2x2							
	Traffic inspector house road		4	45.00	0.15	0.75	20.25		
	Srinivasa house road		2	130.00	0.15	0.75	29.25		
	Yellamma Temple 1st cr road		2	60.00	0.15	0.75	13.50		
	Yellamma Temple 2nd cr road		2	55.00	0.15	0.75	12.38		
	bajjappa road		2	100.00	0.15	0.75	22.50		
	Maruthinagara 4th cross road		2	100.00	0.15	0.75	22.50		
	for culverts								
	Yellamma Temple 1st cr road	2*2	4	7.00	0.230	0.90	5.80		
	Yellamma Temple 2nd cr road	2*2	4	6.00	0.230	0.90	4.97		
	Sapthagiri main road	4*2	8	6.00	0.230	0.90	9.94		
	Gym cross road		2	5.00	0.23	0.90	2.07		
	Yellamma temple link road		2	5.00	0.23	0.90	2.07		
	Toyota showroom opposite		2	5.00	0.23	0.90	2.07	**26.91**	

PARTH ASSOCIATES

							239.01	7273.72	1738491.82
	Basic Rate	6862.00							
	Area Weightage 6%	411.72							
	Grand Total	7273.72							
7	KSRRB M 2200-6 **Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending,** hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. MORTH Specification No 1600 & 2200 TMT Bars Fe 500 Page No 229 I. No 28.8.2 SR 18-19	**Tn**							
	for RCC drain 60 kg/cum		0.060	**192.60**			11.56		
	for RCC culvert 90 kg/cum		0.090	**46.41**			4.18		
				239.01			**15.73**	72326.98	**1137703.40**
	Basic Rate	68233.00							
	Area Weightage 6%	4093.98							
	Grand Total	72326.98							
8	**Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and** Finishing cutting , including form work, cost of alll materials, labour,hire charges of chinery,loading ,unloading ,lead and lift, transportation etc ,complete. (Data Rate)	**Sqm**							
	for RCC drain								
	Traffic inspector house road		2	45.00	0.90		81.00		
	Srinivasa house road		1	130.00	0.90		117.00		
	Yellamma Temple 1st cr road		1	60.00	0.90		54.00		
	Yellamma Temple 2nd cr road		1	55.00	0.90		49.50		
	ba[illegible]appa road		1	100.00	0.90		90.00		
	Maruthinagara 4th cross road		1	100.00	0.90		90.00		
	missing covering slabs						**481.50**		
	Gym cross road		1	200.00	0.90		180.00		
	1st main cross road		1	200.00	0.90		180.00		
	Consider 25%						**360.00**		
							90.00		
	Date Rate	2337.00					**571.50**	**2337.00**	**1339101.00**

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9	**Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4** and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of all materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)	**Sqm**							
	for culverts								
	Yellamma Temple 1st cr road		2	7.00	1.20		16.80		
	Yellamma Temple 2nd cr road		2	6.00	1.20		14.40		
	Sapthagiri main road		4	6.00	1.20		28.80		
	Gym cross road		1	5.00	1.20		6.00		
	Yellamma temple link road		1	5.00	1.20		6.00		
	Toyota showroom opposite		1	5.00	1.20		6.00		
							78.00	**5418.00**	**422604.00**
	Date Rate	**5418.00**							
10	**Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and** 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. Page No.27. Item No.5.30	Nos							
	YellammaTemple 1st main road		1	200.00			200.00		
							200.00		
					0.45		444.44		
							444.44	**432.48**	**192211.41**
	Basic Rate	408.00							
	Area Weightage 6%	24.48							
	Grand Total	432.48							
11	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Page No.180. Item No.24.1	**sqm**							
	YellammaTemple 1st main road		1	200.00	0.45		90.00		
							90.00	**84.80**	**7632.00**

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	Basic Rate	80.00							
	Area Weightage 6%	4.80							
	Grand Total	84.80							
	for CC road								
12	KSRRB M600-1. Construction of dry lean cement concrete mix CC 1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No. 601 of MORTH V Revision and IS 456 Table-5 22.1.1 -do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with Slip form paver with electronic sensor Page No.174. Item No.22.1.1	Cum							
	for CC road								
	Chandra pillapa road		1	120.00	2.50	0.15	45.00		
	Traffic inspector house road		1	45.00	7.00	0.15	47.25		
	1st cross road		1	50.00	3.50	0.15	26.25		
	2nd cross road		1	100.00	4.50	0.15	67.50		
	Saptha giri layout 1st cr road		1	100.00	5.00	0.15	75.00		
	Gym cross road		1	60.00	5.50	0.15	49.50		
	Srinivasa house road		1	130.00	3.00	0.15	58.50		
	bajjappa road		1	65.00	2.50	0.15	24.38		
	Yellamma Temple main road		1	200.00	5.00	0.15	150.00		
	Yellamma Temple cross road		1	125.00	5.00	0.15	93.75		
	Yellamma Temple 1st cr road		1	60.00	5.00	0.15	45.00		
	Yellamma Temple 2nd cr road		1	54.00	5.00	0.15	40.50		
							722.63	**3800.10**	**2746066.26**
	Basic Rate	3585.00							
	Area Weightage 6%	215.10							
	Grand Total	3800.10							

13	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008 mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. Page No.176. Item No.22.6.1	Cum							
	for CC road								
	Chandra pillapa road		1	120.00	2.50	0.150	45.00		
	Traffic inspector house road		1	45.00	7.00	0.150	47.25		
	1st cross road		1	50.00	3.50	0.150	26.25		
	2nd cross road		1	100.00	4.50	0.150	67.50		
	Saptha giri layout 1st cr road		1	100.00	5.00	0.150	75.00		
	Gym cross road		1	60.00	5.50	0.150	49.50		
	Srinivasa house road		1	130.00	3.00	0.150	58.50		
	bajjappa road		1	65.00	2.50	0.150	24.38		
	Yellamma Temple main road		1	200.00	5.00	0.150	150.00		
	Yellamma Temple cross road		1	125.00	5.00	0.150	93.75		
	Yellamma Temple 1st cr road		1	60.00	5.00	0.150	45.00		
	Yellamma Temple 2nd cr road		1	54.00	5.00	0.150	40.50		
							722.63	**5210.96**	**3765596.03**
	Basic Rate	4916.00							
	Area Weightage 6%	294.96							
	Grand Total	5210.96							

14	**KSRRB M800-4. Direction and Place Identification Signs / Project Information Board with size more than 0.9 sqm Size Board:-Providing** and erecting direction and place identification retro- reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm , 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 em, 60 em below ground level as per approved drawing. Page No.180. Item No.24.4	Nos							
			9	9.00			9.00		
							9.00	**7567.34**	**68106.06**
	Basic Rate	7139.00							
	Area Weightage 6%	428.34							
	Grand Total	7567.34							
15	**KSRRB M800-13. Road Marking with Hot Applied 'Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:-** Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 Page No.182. Item No.24.15	Sqm							
	for CC road								
	Chandra pillapa road		2	120.00	0.15		36.00		
	Traffic inspector house road		2	45.00	0.15		13.50		
	1st cross road		2	50.00	0.15		15.00		
	2nd cross road		2	100.00	0.15		30.00		
	Saptha giri layout 1st cr road		2	100.00	0.15		30.00		
	Gym cross road		2	60.00	0.15		18.00		
	Srinivasa house road		2	130.00	0.15		39.00		
	bajjappa road		2	65.00	0.15		19.50		

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	Yellamma Temple main road		2	200.00	0.15		60.00		
	Yellamma Temple cross road		2	125.00	0.15		37.50		
	Yellamma Temple 1st cr road		2	60.00	0.15		18.00		
	Yellamma Temple 2nd cr road		2	54.00	0.15		16.20		
							332.70	**454.74**	**151292.00**
	Basic Rate	429.00							
	Area Weightage 6%	25.74							
	Grand Total	**454.74**							
16	for Rain water harvesting work including 40mm jelly, 20mm jelly coarse sand, fine sand, 12.50 mm chips as per data rates	Nos	4				4	20882.00	83528.00
						Total construction cost			**12603393.18**
						GST 12%			**1512407.18**
						DPR & PMC 2%			**252067.86**
						Tender premium 5%			**630169.66**
	Miscellaneous charges								**1962.12**
								Total	**15000000.00**

(Rupees One Crore Fifty Lakhs Only)

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2018-19
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Executive Engineer
Yelahanka Division
Bangalore-64

Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-64

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work: Improvements to balancing road Surabhi layout and burial ground road and surrounding arears in kempegowda ward no-01 of yelahanka Sub division — **Estimate Cost Rs. 20000000.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 Page No.143. Item No.19.14	cum							
	for CC road								
	Kempegowda petrol bunk road(LHS)		1	100.00	5.00	0.25	125.00		
	Behind raithara santhe road		1	30.00	6.00	0.25	45.00		
	Indra canteen Raithala santhe 1st cross A Road		1	90.00	7.00	0.25	157.50		
	Indian petrol bunk road (RHS)		1	130.00	5.00	0.25	162.50		
	Gkvk OHT park side road		1	90.00	6.00	0.25	135.00		
	Basic Rate	41.00					**625.00**	**125.59**	**78493.75**
	Area Weightage 6%	2.46							
	Loading and unloading + Basic Rate for Haulage upto 8.00 k.m =(1.28 X 2.50 X 8)+ 57	77.48							
	Area Weightage 6%	4.65							
	Grand Total	**125.59**							
2	KSRB 2-2.1 : **Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical** conduits etc, either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. No. KBS 2.1 (a) I 2.3.5 page no 6	cum							
	for RCC drain								
	2nd cross Road(Royal Enfield showroom) surabhi layout		2	220.00	1.00	1.00	440.00		
	Surabhi layout dead end LHS		1	100.00	1.00	1.00	100.00		
	Surabhi layout dead end RHS		1	100.00	1.00	1.00	100.00		

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	Indra canteen Raithara santhe 1st cross Road		1	21.00	1.00	1.00	21.00		
	Indra canteen Raithara santhe 1st cross A Road		1	90.00	1.00	1.00	90.00		
	Shani mahatma temple (1st cross Road)		1	30.00	1.00	1.00	30.00		
	jakkuru main road to join NH road		2	196.00	1.00	1.00	392.00		
	parallel to BDK app & gkvk layout cross road		1	60.00	1.00	1.00	60.00		
	GKVK OHT park side road		1	90.00	1.00	1.00	90.00		
	Surabhi layout 3rd cross road		2	66.00	1.00	1.00	132.00		
	for culverts								
	surabhi layout sarrounding area		10	6.00	1.65	1.20	118.80		
							1573.80	**399.07**	**628056.37**
	Basic Rate	299.00							
	Area Weightage 6%	17.94							
	Loading and unloading + Basic Rate for Haulage upto 8.00 k.m =(1.28 X 2.50 X 8)+ 57	77.48							
	Area Weightage 6%	4.65							
	Grand Total	**399.07**							
3	**Removing &refixing stone slab of drain**	**sqm**							
	Desilting of existing drains								
	1st main surabhi layout		1	196.00	0.90		176.40		
	1st cross road		1	85.00	0.90		76.50		
	2nd cross road		1	85.00	0.90		76.50		
	3rd cross road		1	85.00	0.90		76.50		
	4th cross road		1	90.00	0.90		81.00		
	5th cross road		1	65.00	0.90		58.50		
	6th cross road		1	65.00	0.90		58.50		
	7th cross road		1	65.00	0.90		58.50		
	8th cross road		1	65.00	0.90		58.50		
							720.90	**111.30**	**80236.17**
	Basic Rate	105.00							
	Area Weightage 6%	6.30							
	Grand Total	**111.30**							
4	KSRB M300-19 **Removal of unserviceable soil including excavation**, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specification no 301 pag no 147 lt no 19.62								
	Desilting of existing drains								
	1st main surabhilayout		1	196.00	0.60	0.45	52.92		
	1st cross road		1	85.00	0.60	0.45	22.95		
	2nd cross road		1	85.00	0.60	0.45	22.95		
	3rd cross road		1	85.00	0.60	0.45	22.95		
	4th cross road		1	90.00	0.60	0.45	24.30		
	5th cross road		1	65.00	0.60	0.45	17.55		
	6th cross road		1	65.00	0.60	0.45	17.55		
	7th cross road		1	65.00	0.60	0.45	17.55		
	8th cross road		1	65.00	0.60	0.45	17.55		
							216.27	**36.04**	**7794.37**

	Basic Rate	34.00								
	Area Weightage 6%	2.04								
	Grand Total	**36.04**								
5	KSRB 4-1.7 : **Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum** and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 Page No.13 Item No.4.7	cum								
	for RCC drain									
	2nd cross Road(Royal Enfield showroom) surabhi layout		2	220.00	1.00	0.15	66.00			
	Surabhi layout dead end LHS		1	100.00	1.00	0.15	15.00			
	Surabhi layout dead end RHS		1	100.00	1.00	0.15	15.00			
	Indra canteen Raithara santhe 1st cross Road		1	21.00	1.00	0.15	3.15			
	Indra canteen Raithara santhe 1st cross A Road		1	90.00	1.00	0.15	13.50			
	Shani mahatmatemple (1st cr Rd)		1	30.00	1.00	0.15	4.50			
	jakkuru main road to join NH road		2	196.00	1.00	0.15	58.80			
	parallel to BDK app & gkvk layout cross road		1	60.00	1.00	0.15	9.00			
	Gkvk OHT park side road		1	90.00	1.00	0.15	13.50			
	Surabhi layout 3rd cross road		2	66.00	1.00	0.15	19.80			
	for culverts									
	surabhi layout sarrounding area		10	6.00	1.50	0.15	13.50			
	Basic Rate	5309.00					**231.75**	**5627.54**	**1304182.40**	
	Area Weightage 6%	318.54								
	Grand Total	**5627.54**								

6	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications. Page No.270, Item No.37.59.1	cum							
	for RCC drain								
	2nd cross Road(Royal Enfield showroom) surabhi layout		2	220.00	0.90	0.15	59.40		
	Surabhi layout dead end LHS		1	100.00	0.90	0.15	13.50		
	Surabhi layout dead end RHS		1	100.00	0.90	0.15	13.50		
	Indra canteen Raithara santhe 1st cross Road		1	21.00	0.90	0.15	2.84		
	Indra canteen Raithara santhe 1st cross A Road		1	90.00	0.90	0.15	12.15		
	Shani mahatma temple (1st cross Road)		1	30.00	0.90	0.15	4.05		
	jakkuru main road to join NH road		2	196.00	0.90	0.15	52.92		
	parallel to BDK app & gkvk layout cross road		1	60.00	0.90	0.15	8.10		
	Gkvk OHT park side road		1	90.00	0.90	0.15	12.15		
	Surabhi layout 3rd cross road		2	66.00	0.90	0.15	17.82		
	for culverts								
	surabhi layout sarrounding area		10	6.00	1.20	0.25	18.00		
	for side walls	2X2							
	for RCC drain								
	2nd cross Road(Royal Enfield showroom) surabhi layout		4	220.00	0.15	0.75	99.00		
	Surabhi layout dead end LHS		2	100.00	0.15	0.75	22.50		
	Surabhi layout dead end RHS		2	100.00	0.15	0.75	22.50		
	Indra canteen Raithara santhe 1st cross Road		2	21.00	0.15	0.75	4.73		
	Indra canteen Raithara santhe 1st cross A Road		2	90.00	0.15	0.75	20.25		
	Shani mahatma temple (1st cross Road)		2	30.00	0.15	0.75	6.75		
	jakkuru main road to join NH road		4	196.00	0.15	0.75	88.20		
	parallel to BDK app & gkvk layout cross road		2	60.00	0.15	0.75	13.50		
	Gkvk OHT park side road		2	90.00	0.15	0.75	20.25		
	Surabhi layout 3rd cross road		4	66.00	0.15	0.75	29.70		
	for culverts								

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	surabhi layout sarrounding area		20	6.00	0.23	0.90	24.84		
	Basic Rate	6862.00					566.64	7273.72	4121580.70
	Area Weightage 6%	411.72							
	Grand Total	7273.72							
7	KSRRB M 2200-6 **Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending,** hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. MORTH Specification No 1600 & 2200 TMT Bars Fe 500 Page No 229 Item No 28.8.2 SR 2018-19	**Tn**							
	for RCC drain 60 kg/cum		0.060	**523.80**			31.43		
	for RCC culvert 90 kg/cum		0.090	**42.84**			3.86		
				566.64			**35.28**	**72326.98**	**2551695.8540**
	Basic Rate	68233.00							
	Area Weightage 6%	4093.98							
	Grand Total	72326.98							
8	**Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and** Finishing cutting , including form work, cost of alll materials, labour,hire charges of chinery,loading ,unloading ,lead and lift, transportation etc ,copmplete. (Data Rate)	**Sqm**							
	for RCC drain								
	2nd cross Road(Royal Enfield showroom) surabhi layout		2	220.00	0.90		396.00		
	Surabhi layout dead end LHS		1	100.00	0.90		90.00		
	Surabhi layout dead end RHS		1	100.00	0.90		90.00		
	Indra canteen Raithara santhe 1st cross Road		1	21.00	0.90		18.90		
	Indra canteen Raithara santhe 1st cross A Road		1	90.00	0.90		81.00		
	Shani mahatma temple (1st cross Road)		1	30.00	0.90		27.00		
	jakkuru main road to join NH road		2	196.00	0.90		352.80		
	parallel to BDK app & gkvk layout cross road		1	60.00	0.90		54.00		

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	Gkvk OHT park side road		1	90.00	0.90		81.00		
	Surabhi layout 3rd cross road		2	66.00	0.90		118.80		
	Missing covering slabs						**1309.50**		
	1st main surabhilayout		1	196.00	0.90		176.40		
	1st cross road		1	85.00	0.90		76.50		
	2nd cross road		1	85.00	0.90		76.50		
	3rd cross road		1	85.00	0.90		76.50		
	4th cross road		1	90.00	0.90		81.00		
	5th cross road		1	65.00	0.90		58.50		
	6th cross road		1	65.00	0.90		58.50		
	7th cross road		1	65.00	0.90		58.50		
	8th cross road		1	65.00	0.90		58.50		
							58.50		
	Missing covering slab 30%						**720.90**		
							216.27		
	Date Rate	**2337.00**					**1525.77**	**2337.00**	**3570936.00**
9	**Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4** and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)	**Sqm**							
	for culverts								
	surabhi layout sarrounding area		10	6.00	1.20		72.00		
	Date Rate	**5418.00**					**72.00**	**5418.00**	**390096.00**
10	**Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and** 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. Page No.27. Item No.5.30	Nos							
	2nd cross Road(Royal Enfield showroom) surabhi layout		2	220.00			440.00		
	jakkuru main road to join NH road		2	196.00			392.00		

					0.45		1848.89		
							1849.00	432.48	799655.5200
	Basic Rate	408.00							
	Area Weightage 6%	24.48							
	Grand Total	432.48							
11	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Page No.180. Item No.24.1	**sqm**							
	2nd cross Road(Royal Enfield showroom) surabhi layout		2	200.00	0.45		180.00		
	jakkuru main road to join NH road		2	196.00	0.45		176.40		
							356.40	**84.80**	**30222.72**
	Basic Rate	80.00							
	Area Weightage 6%	4.80							
	Grand Total	84.80							
	for CC road								
12	**KSRRB M600-1. Construction of dry lean cement concrete mix CC 1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse** aggregate at 0.86cum and fine aggregates @ 0.58cum Sub-base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No. 601 of MORTH V Revision and IS 456 Table-5 22.1.1 -do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with Slip form paver with electronic sensor Page No.174. Item No.22.1.1	**Cum**							
	for CC road								
	Kempegowda petrol bunk road (LHS)		1	100.00	5.00	0.15	75.00		
	Behind raithara santhe road		1	30.00	6.00	0.15	27.00		
	Indra canteen Raithala santhe 1st cross A Road		1	90.00	7.00	0.15	94.50		

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	Indian petrol bunk road		1	130.00	5.00	0.15	97.50		
	Gkvk OHT park side road		1	90.00	6.00	0.15	81.00		
							375.00	3800.10	1425037.50
	Basic Rate	3585.00							
	Area Weightage 6%	215.10							
	Grand Total	3800.10							
13	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to 15:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. Page No.178, Item No.22.8.1	Cum							
	for CC road								
	Kempegowda petrol bunk road		1	100.00	5.00	0.125	62.50		
	Behind raithara santhe road		1	30.00	6.00	0.125	22.50		
	Indra canteen Raithala santhe 1st cross A Road		1	90.00	7.00	0.125	78.75		
	Indian petrol bunk road		1	130.00	5.00	0.125	81.25		
	Gkvk OHT park side road		1	90.00	6.00	0.125	67.50		
							312.50	5210.96	1628425.00
	Basic Rate	4916.00							
	Area Weightage 6%	294.96							
	Grand Total	5210.96							

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14	**KSRRB M800-4. Direction and Place Identification Signs / Project Information Board with size more than 0.9 sqm Size Board:-Providing** and erecting direction and place identification retro- reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting. 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm , 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 em, 60 em below ground level as per approved drawing. Page No.180. Item No.24.4	Nos							
			6				6.00		
	Basic Rate	7139.00					6.00	7567.34	45404.04
	Area Weightage 6%	428.34							
	Grand Total	7567.34							
15	**KSRRB M800-13. Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:-** Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 Page No.182. Item No.24.15	Sqm							
	for CC road								
	Kempegowda petrol bunk road (LHS)		2	100.00	0.15		30.00		
	Behind raithara santhe road		2	30.00	0.15		9.00		
	Indra canteen Raithala santhe 1st cross A Road		2	90.00	0.15		27.00		
	Indian petrol bunk road		2	130.00	0.15		39.00		
	Gkvk OHT park side road		2	90.00	0.15		27.00		
							132.00	454.74	60025.68

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	Basic Rate	429.00							
	Area Weightage 6%	25.74							
	Grand Total	**454.74**							
16	for Rain water harvesting work including 40mm jelly,20mm jelly coarse sand, fine sand,12.5mm chips as per data rates	Nos	4				4.00	20882.00	83528.00
								Total construction cost	16805370.07
								GST 12%	2016644.41
								DPR & PMC 2%	336107.40
	Miscellaneous charges							Tender Premium 5%	840268.50
									1609.62
								Total	20000000.00

(Rupees Two Crore Only)

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2018-19
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Executive Engineer
Yelahanka Division
Bangalore-64

Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-64

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 10000000.00

Name of Work: Improvements to balance road and drain kondappa garden and surounding areas in Kempegowda ward no-1 of yelahanka Subdivision

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. MORTH Specification No.301								
	for asphalt road								
	Sapthagiri layout 1st cross road		1	100.00	11.00	0.30	330.00		
	for CC road								
	Sapthagiri layout 1st cr LHS road		1	28.00	4.80	0.20	26.88		
	Sapthagiri layout 1st cr RHS road		1	45.00	4.80	0.20	43.20		
	Basic Rate	41.00					330.00	125.59	41444.70
	Area Weightage 6%	2.46							
	Grand Total	43.46							
	Loading and unloading + Basic Rate for Haulage upto 8.00 k.m =(1.28 X 2.50 X 8)+ 57	77.48							
	Area Weightage 6%	4.65							
		125.59							
2	KSRB 2-2.1 : **Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical** conduits etc, either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. No. KBS 2.1 (a) I 2.3.5 page no 6	cum							
	for RCC drain								
	kondappa garden 1st cross road		2	30	1.00	1.00	60.00		
	kondappa garden 2nd cross road		2	30	1.00	1.00	60.00		

	Sapthagiri layout 1st cr LHS road		1	28	1.00	1.00	28.00		
	Sapthagiri layout 1st cr RHS road		2	45	1.00	1.00	90.00		
	Sapthagiri layout 2nd cr RHS road		2	60	1.00	1.00	120.00		
	Cross Road		1	80	1.00	1.00	80.00		
	for culverts								
	Kondappa garden surrounding area		9	5.00	1.40	1.20	75.60		
	Basic Rate	299.00					513.60	399.07	204722.91
	Area Weightage 6%	17.94							
	Loading and unloading + Basic Rate for Haulage upto 8.00 k.m =(1.28 X 2.50 X 8)+ 57	77.48							
	Area Weightage 6%	4.65							
	Grand Total	**399.07**							
3	**Removing &refixing stone slab of drain**	**sqm**							
	Area								
	Papanna badavane main road		1	335.00	0.90		301.50		
	Papanna layout cross road		1	40.00	0.90		36.00		
	Papanna badavane road		1	320.00	0.90		288.00		
	Munithimayya garden		1	373.00	0.90		335.70		
	Shankarappa layout		1	270.00	0.90		243.00		
	Badranna layout		1	213.00	0.90		191.70		
	Jayanna badavane		1	225.00	0.90		202.50		
	Basic Rate	105.00					1598.40	111.30	177901.92
	Area Weightage 6%	6.30							
	Grand Total	**111.30**							
4	KSRB M300-19 Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specification no 301 pag no 147 lt no 19.62								
	Desilting of existing drains								
	Papanna badavane main road		1	335.00	0.60	0.40	80.40		
	Papanna layout cross road		1	40.00	0.60	0.40	9.60		
	Papanna badavane road		1	320.00	0.60	0.40	76.80		
	Munithimayya garden		1	373.00	0.60	0.40	89.52		
	Shankarappa layout		1	270.00	0.60	0.40	64.80		
	Badranna layout		1	213.00	0.60	0.40	51.12		
	Jayanna badavane		1	225.00	0.60	0.40	54.00		
	Basic Rate	34.00					426.24	36.04	15361.69
	Area Weightage 6%	2.04							
	Grand Total	36.04							

5	KSRB 4-1.7 : **Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum** and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 Page No.13 Item No.4.7	cum								
	for RCC drain									
	kondappa garden 1st cross road		2	30	1.00	0.15	9.00			
	kondappa garden 2nd cross road		2	30	1.00	0.15	9.00			
	Sapthagiri layout 1st cr LHS road		1	28	1.00	0.15	4.20			
	Sapthagiri layout 1st cr RHS road		2	45	1.00	0.15	13.50			
	Sapthagiri layout 2nd cr RHS road		2	60	1.00	0.15	18.00			
	Cross Road		1	80	1.00	0.15	12.00			
	for culverts									
	Kondappa garden surrounding area		9	5.00	1.40	0.15	9.45			
	Basic Rate	5309.00					**75.15**	**5627.54**	**422909.63**	
	Area Weightage 6%	318.54								
	Grand Total	5627.54								
6	Providing **and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs.** with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications. Page No.270. Item No.37.59.1	**cum**								

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	for bed								
	for RCC drain								
	kondappa garden 1st cross road		2	30	0.90	0.15	8.10		
	kondappa garden 2nd cross road		2	30	0.90	0.15	8.10		
	Sapthagiri layout 1st cr LHS road		1	28	0.90	0.15	3.78		
	Sapthagiri layout 1st cr RHS road		2	45	0.90	0.15	12.15		
	Sapthagiri layout 2nd cr RHS road		2	60	0.90	0.15	16.20		
	Cross Road		1	80	0.90	0.15	10.80		
	for culverts								
	Kondappa garden sarrounding area		9	5.00	1.20	0.25	13.50		
	for side walls							**13.50**	
	for RCC drain	**2x2**							
	kondappa garden 1st cross road		4	30	0.15	0.75	13.50		
	kondappa garden 2nd cross road		4	30	0.15	0.75	13.50		
	Sapthagiri layout 1st cr LHS road		2	28	0.15	0.75	6.30		
	Sapthagiri layout 1st cr RHS road		4	45	0.15	0.75	20.25		
	Sapthagiri layout 2nd cr RHS road		4	60	0.15	0.75	27.00		
	Cross Road		2	80	0.15	0.75	18.00		
	for culverts								
	Kondappa garden surrounding area		18	5.00	0.23	0.90	18.63		
								18.63	
	Basic Rate	6862.00					**189.81**	**7273.72**	**1380624.79**
	Area Weightage 6%	411.72							
	Grand Total	7273.72							
7	KSRRB M 2200-6 **Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting,** bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. MORTH Specification No 1600 & 2200 TMT Bars Fe 500 Page No 229 Item No 28.8.2 SR 2018-19	**Tn**							
	for RCC drain 60 kg/cum		0.060	**157.68**			9.46		

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	for RCC culvert 90 kg/cum		0.090	32.13			2.89		
				189.81			**12.35**	***72326.98***	**893238.20**
	Basic Rate	68233.00							
	Area Weightage 6%	4093.98							
	Grand Total	72326.98							
8	**Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and** Finishing cutting , including form work, cost of alll materials, labour,hire charges of chinery,loading ,unloading ,lead and lift, transportation etc ,copmplete. (Data Rate)	**Sqm**							
	for RCC drain								
	kondappa garden 1st cross road		2	30	0.90		54.00		
	kondappa garden 2nd cross road		2	30	0.90		54.00		
	Sapthagiri layout 1st cr LHS road		1	28	0.90		25.20		
	Sapthagiri layout 1st cr RHS road		2	45	0.90		81.00		
	Sapthagiri layout 2nd cr RHS road		2	60	0.90		108.00		
	Cross Road		1	80	0.90		72.00		
	Missing covering slab						**322.20**		
	Papanna badavane main road		1	335.00	0.90		301.50		
	Papanna layout cross road		1	40.00	0.90		36.00		
	Papanna badavane road		1	320.00	0.90		288.00		
	Munithimayya garden		1	373.00	0.90		335.70		
	Shankarappa layout		1	270.00	0.90		243.00		
	Badranna layout		1	213.00	0.90		191.70		
	Jayanna badavane		1	225.00	0.90		202.50		
	provided missing covering slab 20%						**1598.40**		
							319.68		
	Date Rate	**2337.00**					**641.88**	**2337.00**	**1668337.56**
9	**Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4** and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)	**Sqm**							
	for culverts								
	Kondappa garden surrounding area		9	5.00	1.20		54.00		

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	Date Rate	5418.00					54.00	5418.00	292572.00
10	**Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. Page No.27. Item No.5.30**	Nos							
	Papanna badavane main road		2	335.00			670.00		
	Papanna badavane cr road		1	160.00			160.00		
	Marutheswaraswmy temple to SWD road		1	80.00			80.00		
	Shankarappa layout		2	270.00			540.00		
							1450.00		
					0.45		3222.22		
	Basic Rate	408.00					**3223.00**	**432.48**	**1393883.04**
	Area Weightage 6%	24.48							
	Grand Total	432.48							
11	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Page No.180. Item No.24.1	**sqm**							
	Papanna badavane main road		2	335.00	0.45		301.50		
	Papanna badavane cr road		1	160.00	0.45		72.00		
	Marutheswaraswmy temple to SWD road		1	80.00	0.45		36.00		
	Shankarappa layout		2	270.00	0.45		243.00		
	Basic Rate	80.00					**652.50**	**84.80**	**55332.00**
	Area Weightage 6%	4.80							
	Grand Total	84.80							
	for CC road								

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12	**KSRRB M600-1. Construction of dry lean cement concrete mix CC 1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse** aggregate at 0.86cum and fine aggregates @ 0.58cum Sub-base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No. 601 of MORTH V Revision and IS 456 Table-5 22.1.1 -do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with Slip form paver with electronic sensor Page No.174, Item No.22.1.1	**Cum**								
	for CC road									
	Sapthagiri layout 1st cr LHS road		1	28.00	4.80	0.15	20.16			
	Sapthagiri layout 1st cr RHS road		1	45.00	4.80	0.15	32.40			
							52.56	**3800.10**	**199733.26**	
	Basic Rate	3585.00								
	Area Weightage 6%	215.10								
	Grand Total	3800.10								

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13	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to 18:383-2016, with Superplasticizer at 3 its conforming to IS 9103-2008, mixed in a concrete mixer of not less than 0.8 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. do-with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. Page No.176, Item No.22.6.1	Cum								
	for CC road									
	Sapthagiri layout 1st cr LHS road		1	28.00	4.80	0.125	16.80			
	Sapthagiri layout 1st cr RHS road		1	45.00	4.80	0.125	27.00			
							43.80	**5210.96**	**228240.05**	
	Basic Rate	4916.00								
	Area Weightage 6%	294.96								
	Grand Total	5210.96								
	for Asphalt road									
14	**Construction of granular sub-base Grading-V as Sub-base and drainage layer by** providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method byrotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. Page No.153. Item No.20.6	**cum**								
	for Asphalt road									
	Sapthagiri layout 1st cross road		1	100.00	11.00	0.15	165.00			
							165.00	**1855.00**	**306075.00**	
	Basic Rate	1750.00								
	Area Weightage 6%	105.00								
	Grand Total	1855.00								

15	KSRRB M400-17. **Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406. Page No. 155. Item No.20.18	**cum**								
	for Asphalt road									
	Sapthagiri layout 1st cross road		1	100.00	11.00	0.15	165.00			
	Basic Rate	1888.00					**165.00**	**2001.28**	**330211.20**	
	Area Weightage 6%	113.28								
	Grand Total	2001.28								
16	**KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion** on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)	**sqm**								
	for Asphalt road									
	Sapthagiri layout 1st cross road		1	100.00	11.00		1100.00			
	Basic Rate	32.00					**1100.00**	33.92	**37312.00**	
	Area Weightage 6%	1.92								
	Grand Total	33.92								
17	KSRRB 500-2. **Cleaning the existing black topped surface with brooms, soft brushes and finally** dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 Page No.158. Item No.21.2	**Sqm**								

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	for Asphalt road									
	Sapthagiri layout 1st cross road		1	100.00	11.00		1100.00			
	Basic Rate	5.00					1100.00	5.30	5830.	
	Area Weightage 6%	0.30								
	Grand Total	5.30								
18	KSRRB M500-17. **Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading,** premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50 mm to 75mm) with 4.5% VG-30 Bitumen. Page No.160. Item No.21.17.2	Cum								
	DBM for camber corrections									
	for Asphalt road									
	Sapthagiri layout 1st cross road		1	100.00	11.00	0.05	55.00			
	consider15%									
	Basic Rate	7189.00					8.25	7620.34	62867.81	
	Area Weightage 6%	431.34								
	Grand Total	7620.34								
19	KSRRB 500-7. **Providing and applying tack coat using 80/100 grade bitumen (VG10) on the** prepared black topped surfaces at 0.25 kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 Page No.158. Item No.21.7	Sqm								
	for Asphalt road									
	Sapthagiri layout 1st cross road		1	100.00	11.00		1100.00			
	Basic Rate	12.00					1100.00	12.72	13992.00	

AARTH ASSOCIATES
DATE

	Area Weightage 6%	0.72								
	Grand Total	12.72								
20	**Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with** bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications, Clause 507 of MORTH V revision as per IRC SP- 53-2015.do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% ofVG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) Page No. 171. Item No.21.78.12		**Cum**							
	for Asphalt road									
	Sapthagiri layout 1st cross road		1	100.00	11.00	0.04	44.00			
							44.00	**8699.42**	**382774.48**	
	Basic Rate	8207.00								
	Area Weightage 6%	492.42								
	Grand Total	8699.42								
21	**Providing and fixing of retro - reflectorised cautionary, mandatory and informatory sign as per IRC:67 made of high intensity grade sheeting vide Clause** 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 em x 45 cm x 60 em, 60 cm below ground level as per approved drawing Page No.180. Item No.24.2		**Nos**							
	for Asphalt road									
	Sapthagiri layout 1st cross road		2	50.00			100.00			
							100.00	**137.80**	**13780.00**	
	Basic Rate	130.00								
	Area Weightage 6%	7.80								

	Grand Total	137.80								
22	**KSRRB M800-4. Direction and Place Identification Signs / Project Information Board with size more than 0.9 sqm Size Board:-Providing** and erecting direction and place identification retro- reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm , 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 em, 60 em below ground level as per approved drawing. Page No.180. Item No.24.4	Nos								
			2	1.00			2.00			
	Basic Rate	7139.00					2.00	7567.34	15134.68	
	Area Weightage 6%	428.34								
	Grand Total	7567.34								
23	**KSRRB M800-13. Road Marking with Hot Applied 'Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:-** Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications, MORTH Specification No. 803 Page No.182. Item No.24.15	Sqm								
	for Asphalt road									
	Sapthagiri layout 1st cross road		1	66.67	0.10		6.67			
	Sapthagiri layout 1st cr LHS road		2	100.00	0.15		30.00			
	Sapthagiri layout 1st cr RHS road		2	28.00	0.15		8.40			
			2	45.00	0.15		13.50			
	Basic Rate	429.00					58.57	454.74	26634.12	
	Area Weightage 6%	25.74								
	Grand Total	454.74								

24	for Rain water harvesting work including 40mm jelly,20mm jelly coarse sand, fine sand,12.5mm chips as per data rates	Nos	11				11.00	20882.00	229702
						Total construction cost			8398615
						GST 12%			1007833
	Miscellaneous charges					DPR & PMC 2%			167972.
						Tender Premium 5%			419930.
									5648.1
								Total	1000000

(Rupees One Crore Only)

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2018-19
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

AARTN ASSOC DATE BANGALORE

Assistant Engineer

Executive Engineer
Yelahanka Division
Bangalore-64

Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-64

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work: Improvements to balance road and drain Vikasa layout and surounding areas in Kempegowda ward no-1 of yelahanka Subdivision

Estimate Cost Rs. 15000000.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-2.1 : Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. No. KBS 2.1 (a) I 2.3.5 page no 6	cum							
	for RCC drain								
	Oposite AG charch cross roads		2	360.00	1.00	0.90	648.00		
	Oposite AG charch Main roads		2	430.00	1.00	0.90	774.00		
	Basic Rate	299.00					1422.00	399.07	567477.54
	Area Weightage 6%	17.94							
	Loading and unloading + Basic Rate for Haulage upto 8.00 k.m =(1.28 X 2.50 X 8)+ 57	77.48							
	Area Weightage 6%	4.65							
	Grand Total	399.07							
3	KSRB 4-1.7 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 Page No.13 Item No.4.7	cum							
	for RCC drain								
	Oposite AG charch cross roads		2	360.00	0.90	0.15	97.20		
	Oposite AG charch Main roads		2	430.00	0.90	0.15	116.10		
	Basic Rate	5309.00					213.30	5627.54	1200354.28
	Area Weightage 6%	318.54							
	Grand Total	5627.54							

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4	**Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs.** with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications. Page No.270. Item No.37.59.1	**cum**								
	for bed									
	for RCC drain									
	Oposite AG charch cross roads		2	360.00	0.90	0.15	97.20			
	Oposite AG charch Main roads		2	430.00	0.90	0.15	116.10			
	for side walls									
		2x2								
	Oposite AG charch cross roads		4	360.00	0.15	0.60	129.60			
	Oposite AG charch Main roads		4	430.00	0.15	0.60	154.80			
	Basic Rate	6862.00					**497.70**	**7273.72**	**3620130.44**	
	Area Weightage 6%	411.72								
	Grand Total	7273.72								
5	KSRRB M 2200-6 **Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting,** bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. MORTH Specification No 1600 & 2200 TMT Bars Fe 500 Page No 229 Item No 28.8.2 SR 2018-19	**Tn**								
	for RCC drain 60 kg/cum		0.060	**497.70**			29.86			
				497.70			**29.86**	**72326.98**	**2159683.62**	
	Basic Rate	68233.00								
	Area Weightage 6%	4093.98								
	Grand Total	72326.98								

AARTNA ASSOCIATES * CHANDRAPUR DATE

6	**Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and** Finishing cutting , including form work, cost of alll materials, labour,hire charges of chinery,loading ,unloading ,lead and lift, transportation etc ,copmplete. (Data Rate)	**Sqm**								
	for RCC drain									
	Oposite AG charch cross roads		2	360.00	0.90		648.00			
	Oposite AG charch Main roads		2	430.00	0.90		774.00			
	Date Rate	**2337.00**					**1425.00**	**2337.00**	**3330225.00**	
7	**Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. Page No.27. Item No.5.30**	**Nos**								
	Oposite AG charch cross roads		2	360.00			720.00			
	Oposite AG charch Main roads		2	430.00			860.00			
					0.45		3511.11			
	Basic Rate	408.00					**3512.00**	**432.48**	**1518869.76**	
	Area Weightage 6%	24.48								
	Grand Total	432.48								
8	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Page No.180. Item No.24.1	**sqm**								
	Oposite AG charch cross roads		2	360.00	0.45		324.00			
	Oposite AG charch Main roads		2	430.00	0.45		387.00			
	Basic Rate	80.00					**711.00**	**84.80**	**60292.80**	
	Area Weightage 6%	4.80								
	Grand Total	84.80								
19	for Rain water harvesting work including 40mm jelly,20mm jelly coarse sand, fine sand,12.5mm chips as per data rates	Nos	7				7.00	20882.00	146174.00	

						Total construction cost		12603207.45
						GST 12%		1512384.89
	Miscellaneous charges					DPR & PMC 2%		252064.15
						Tender Premium 5%		630160.37
								2183.14
							Total	15000000.00

(Rupees One Crore fifty lac Only)

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2018-19
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Executive Engineer
Yelahanka Division
Bangalore-64

MARTINASSOCIATES
DATE
BANGALORE

Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-64

BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of Work: Asphalting of roads at vinayaka nagara main road (from NH-7 road to ward boarder in kempegowda ward no-01 of yelahanka Sub division

Estimate Cost Rs. 10000000.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-2.1 : Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. No. KBS 2.1 (a) I 2.3.5 page no 6	cum							
	for RCC drain								
	Vinayaka nagara Main road		1	50.00	1.20	1.20	72.00		
	Vinayaka nagara Main road		1	50.00	1.00	0.90	45.00		
	vikasa layout 1st Cross road		2	120.00	1.00	0.90	216.00		
	vikasa layout 2nd Cross road		2	120.00	1.00	0.90	216.00		
	vikasa layout 3rd Cross road		2	66.00	1.00	0.90	118.80		
	vikasa layout 4th Cross road		2	65.00	1.00	0.90	117.00		
	Basic Rate	299.00					784.80	399.07	313190.14
	Area Weightage 6%	17.94							
	Loading and unloading + Basic Rate for Haulage upto 8.00 k.m =(1.28 X 2.50 X 8)+ 57	77.48							
	Area Weightage 6%	4.65							
	Grand Total	399.07							
	Removing &refixing stone slab of drain	sqm							
	Desilting of existing drains								
	1st cross road		2	25.00	0.90		45.00		
	2nd cross road		2	25.00	0.90		45.00		
	3rd cross road		2	25.00	0.90		45.00		
	Basic Rate	105.00					135.00	111.30	15025.50
	Area Weightage 6%	6.30							
	Grand Total	111.30							
2	KSRB M300-19 Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specification no 301 pag no 147 lt no 19.62								
	Desilting of existing drains								
	1st cross road		2	25.00	0.60	0.40	12.00		
	2nd cross road		2	25.00	0.60	0.40	12.00		

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	3rd cross road		2	25.00	0.60	0.40	12.00		
	Basic Rate	34.00					36.00	36.04	1297.44
	Area Weightage 6%	2.04							
	Grand Total	36.04							
3	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 Page No.143. Item No.19.14	cum							
	for road								
	Vinayaka nagara Main road								
	Bad reaches		1	250	1.80	0.30	135.00		
			1	3.50	2.00	0.30	2.10		
			1	8.00	1.20	0.30	2.88		
			1	2.00	2.00	0.30	1.20		
			1	1.50	1.10	0.30	0.50		
			1	2.00	1.10	0.30	0.66		
			1	3.00	1.50	0.30	1.35		
			1	2.00	1.60	0.30	0.96		
			1	3.00	1.80	0.30	1.62		
			1	2.50	3.00	0.30	2.25		
			1	2.60	2.20	0.30	1.72		
			1	2.40	2.00	0.30	1.44		
	Basic Rate	41.00					151.67	125.59	19048.24
	Area Weightage 6%	2.46							
	Loading and unloading + Basic Rate for Haulage upto 8.00 k.m =(1.28 X 2.50 X 8)+ 57	77.48							
	Area Weightage 6%	4.65							
	Grand Total	125.59							
4	KSRB 4-1.7 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 Page No.13 Item No.4.7	cum							
	for RCC drain								
	Vinayaka nagara Main road								
	Vinayaka nagara Main road		1	50.00	1.15	0.15	8.64		
	vikasa layout 1st Cross road		1	50.00	0.90	0.15	6.78		
	vikasa layout 2nd Cross road		2	120.00	1.00	0.15	36.00		
	vikasa layout 3rd Cross road		2	120.00	1.00	0.15	36.00		
	vikasa layout 4th Cross road		2	66.00	1.00	0.15	19.80		
	Basic Rate	5309.00	2	65.00	1.00	0.15	19.50		
							126.72	5627.54	713121.87

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	Area Weightage 6%	318.54								
	Grand Total	**5627.54**								
5	**Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs.** with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications. Page No.270, Item No.37.59.1	**cum**								
	for bed									
	for RCC drain									
	Vinayaka nagara Main road		1	50.00	1.00	0.15	7.70			
	Vinayaka nagara Main road		1	50.00	0.90	0.15	6.93			
	vikasa layout main road		2	120.00	0.90	0.15	33.26			
	vikasa layout main road		2	120.00	0.90	0.15	33.26			
	vikasa layout cr road		2	66.00	0.90	0.15	18.30			
	vikasa layout cr road		2	65.00	0.90	0.15	18.02			
	for side walls									
		2x2								
	Vinayaka nagara Main road		2	50.00	0.15	0.90	13.57			
	Vinayaka nagara Main road		2	50.00	0.15	0.60	9.10			
	vikasa layout 1st Cross road		4	120.00	0.20	0.60	58.08			
	vikasa layout 2nd Cross road		4	120.00	0.20	0.60	58.08			
	vikasa layout 3rd Cross road		4	66.00	0.20	0.60	31.78			
	vikasa layout 4th Cross road		4	65.00	0.20	0.60	31.30			
							319.39	**7273.72**	**2323153.43**	
	Basic Rate	6862.00								
	Area Weightage 6%	411.72								
	Grand Total	7273.72								

PARTH ASSOCIATES
DATE
BANGALORE

6	KSRRB M 2200-6 **Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending,** hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. MORTH Specification No 1600 & 2200 TMT Bars Fe 500 Page No 229 Item No 28.8.2 SR 2018-19	**Tn**								
	for RCC drain 60 kg/cum		0.060	**319.39**			19.16			
				319.39			**19.16**	**72326.98**	**1386033.00**	
	Basic Rate	68233.00								
	Area Weightage 6%	4093.98								
	Grand Total	72326.98								
7	**Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and** Finishing cutting , including form work, cost of alll materials, labour,hire charges of chinery,loading ,unloading ,lead and lift, transportation etc complete (Data Rate)	**Sqm**								
	for RCC drain									
	Vinayaka nagara Main road		1	50.00	1.00		50.00			
	Vinayaka nagara Main road		1	50.00	0.9		46.70			
	vikasa layout 1st Cross road		2	120.00	0.9		224.16			
	vikasa layout 2nd Cross road		2	120.00	0.9		224.16			
	vikasa layout 3rd Cross road		2	66.00	0.9		123.32			
	vikasa layout 4th Cross road		2	65.00	0.9		121.46			
	missing cover slab						**789.80**			
	1st cross road		2	25.00	0.90		45.00			
	2nd cross road		2	25.00	0.90		45.00			
	3rd cross road		2	25.00	0.90		45.00			
	Missing covering slab 30%						**135.00**			
							33.75			
	Date Rate	**2337.00**					**823.55**	**2337.00**	**1924636.35**	

PARTH ASSOCIATES
BANGALORE

8	**Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. Page No.27. Item No.5.30**	Nos							
	Vinayaka nagara Main road		2	250			500.00		
					0.45		1111.11		
	Basic Rate	408.00					**1112.00**	**432.48**	**480917.76**
	Area Weightage 6%	24.48							
	Grand Total	432.48							
9	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Page No.180. Item No.24.1	**sqm**							
	Vinayaka nagara Main road		1	250	0.45		112.50		
	Basic Rate	80.00					**112.50**	**84.80**	**9540.00**
	Area Weightage 6%	4.80							
	Grand Total	84.80							
	for Asphalt road								
9	**Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing** coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method byrotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. Page No.153, Item No.20.6	**cum**							
	for road								
	Vinayaka nagara Main road bwssb road cutting porstion		1	250.00	1.80	0.15	67.50		
	for bad reaches portion		1	3.50	2.00	0.15	1.05		
			1	8.00	1.20	0.15	1.44		
			1	2.00	2.00	0.15	0.60		

			1	1.50	1.10	0.15	0.25		
			1	2.00	1.10	0.15	0.33		
			1	3.00	1.50	0.15	0.68		
			1	2.00	1.60	0.15	0.48		
			1	3.00	1.80	0.15	0.81		
			1	2.50	3.00	0.15	1.13		
			1	2.60	2.20	0.15	0.86		
			1	2.40	2.00	0.15	0.72		
	Basic Rate	1750.00					75.84	1855.00	140683.20
	Area Weightage 6%	105.00							
	Grand Total	1855.00							
10	KSRRB M400-17. **Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406. Page No. 155. Item No.20.18	cum							
	for road								
	Vinayaka nagara Main road bwssb road cutting porstion		1	250.00	1.80	0.15	67.50		
	for bad reaches portion		1	3.50	2.00	0.15	1.05		
			1	8.00	1.20	0.15	1.44		
			1	2.00	2.00	0.15	0.60		
			1	1.50	1.10	0.15	0.25		
			1	2.00	1.10	0.15	0.33		
			1	3.00	1.50	0.15	0.68		
			1	2.00	1.60	0.15	0.48		
			1	3.00	1.80	0.15	0.81		
			1	2.50	3.00	0.15	1.13		
			1	2.60	2.20	0.15	0.86		
			1	2.40	2.00	0.15	0.72		
	Basic Rate	1888.00					75.84	2001.28	151777.08
	Area Weightage 6%	113.28							
	Grand Total	2001.28							

AARTHA ASSOCIATES
BANGALORE

11	**KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)**	**sqm**								
	for road									
	Vinayaka nagara Main road bwssb road cutting porstion		1	250.00	1.80		450.00			
	for bad reaches portion		1	3.50	2.00		7.00			
			1	8.00	1.20		9.60			
			1	2.00	2.00		4.00			
			1	1.50	1.10		1.65			
			1	2.00	1.10		2.20			
			1	3.00	1.50		4.50			
			1	2.00	1.60		3.20			
			1	3.00	1.80		5.40			
			1	2.50	3.00		7.50			
			1	2.60	2.20		5.72			
			1	2.40	2.00		4.80			
	Basic Rate	32.00					**505.57**	**33.92**	**17148.93**	
	Area Weightage 6%	1.92								
	Grand Total	33.92								
12	**KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading,** premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50 mm to 75mm) with 4.5% VG-30 Bitumen. Page No.160. Item No.21.17.2	**Cum**								
	for road									
	Vinayaka nagara Main road bwssb road cutting porstion		1	250.00	1.80	0.05	22.50			
	for bad reaches portion		1	3.50	2.00	0.05	0.35			
			1	8.00	1.20	0.05	0.48			
			1	2.00	2.00	0.05	0.20			
			1	1.50	1.10	0.05	0.08			
			1	2.00	1.10	0.05	0.11			

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			1	3.00	1.50	0.05	0.23		
			1	2.00	1.60	0.05	0.16		
			1	3.00	1.80	0.05	0.27		
			1	2.50	3.00	0.05	0.38		
			1	2.60	2.20	0.05	0.29		
			1	2.40	2.00	0.05	0.24		
	Basic Rate	7189.00					25.28	7620.34	192642.20
	Area Weightage 6%	431.34							
	Grand Total	7620.34							
13	KSRRB 500-2. **Cleaning the existing black topped surface with brooms, soft brushes and finally** dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 Page No.158. Item No.21.2	**Sqm**							
	for road								
	Vinayaka layout main road		1	250.00	5.50		1375.00		
							1375.00	5.30	7287.50
	Basic Rate	5.00							
	Area Weightage 6%	0.30							
	Grand Total	5.30							
14	KSRRB 500-7. **Providing and applying tack coat using 80/100 grade bitumen (VG10) on the** prepared black topped surfaces at 0.25 kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 Page No.158. Item No.21.7	**Sqm**							
	for road								
	Vinayaka layout main road		1	250.00	5.50		1375.00		
							1375.00	12.72	17490.00
	Basic Rate	12.00							
	Area Weightage 6%	0.72							
	Grand Total	12.72							

15	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP- 53-2015.do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% ofVG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) Page No. 171. Item No.21.78.12									
	for road	Cum								
	Vinayaka layout main road		1	250.00	5.50	0.04	55.00			
							55.00	8699.42	478468.10	
	Basic Rate	8207.00								
	Area Weightage 6%	492.42								
	Grand Total	8699.42								
16	**Providing and fixing of retro - reflectorised cautionary, mandatory and informatory sign as per IRC:67 made of high intensity grade sheeting vide Clause** 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 em x 45 cm x 60 em, 60 cm below ground level as per approved drawing Page No.180. Item No.24.2	Nos								
	Vinayaka nagara Main road		2	125			250.00			
							250.00	137.80	34450.00	
	Basic Rate	130.00								
	Area Weightage 6%	7.80								
	Grand Total	137.80								

17	**KSRRB M800-4. Direction and Place Identification Signs / Project Information Board with size more than 0.9 sqm Size Board:-Providing** and erecting direction and place identification retro- reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm , 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 em, 60 em below ground level as per approved drawing. Page No.180. Item No.24.4	Nos								
			1	1.00			1.00		
	Basic Rate	7139.00					1.00	7567.34	7567.34
	Area Weightage 6%	428.34							
	Grand Total	7567.34							
18	**KSRRB M800-13. Road Marking with Hot Applied 'Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:-** Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 Page No.182. Item No.24.15	Sqm								
	Vinayaka nagara Main road								
			1	166.67	0.10		16.67		
			2	250.00	0.15		75.00		
	Basic Rate	429.00					91.67	454.74	41686.02
	Area Weightage 6%	25.74							
	Grand Total	454.74							
19	for Rain water harvesting work including 40mm jelly,20mm jelly coarse sand, fine sand,12.5mm chips as per data rates	Nos	6				6.00	20882.00	125292

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					Total construction cost	8400208.02
					GST 12%	1008024.96
					DPR &PMC 2%	168004.16
	Miscellaneous charges				Tender Premium 5%	420010.40
						3752.46
					Total	10000000.00

(Rupees One Crore Only)

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2018-19
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Executive Engineer
Yelahanka Division
Bangalore-64

Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-64